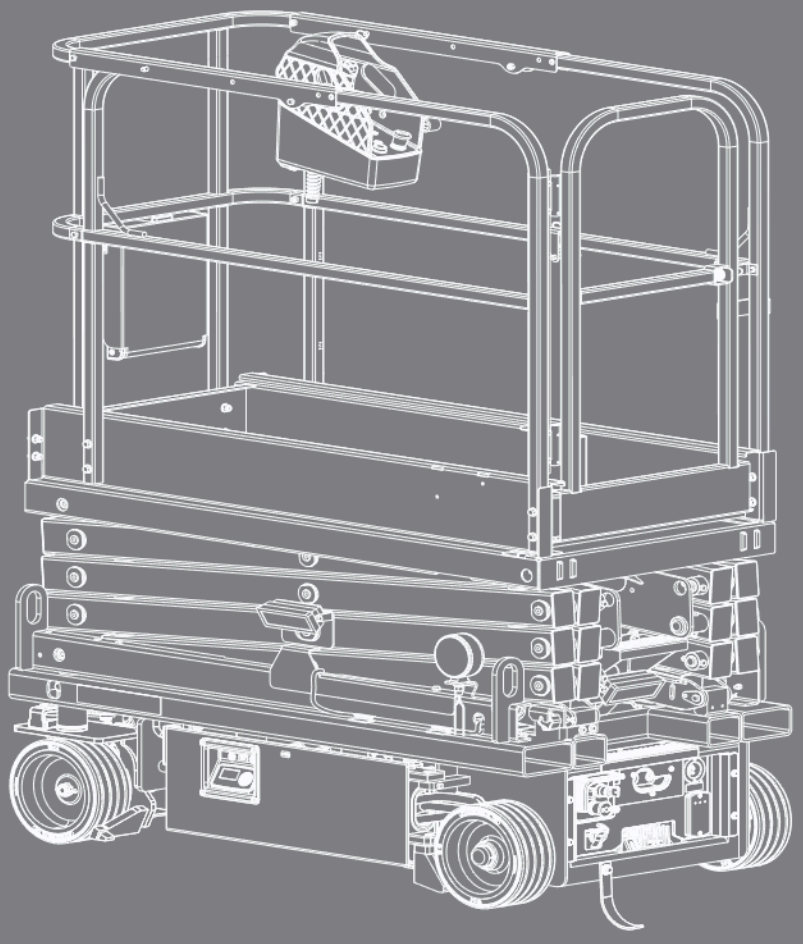
SKYJACK

OPERATION MANUAL

SJ3213 micro, SJ3219 micro

DC ELECTRIC SCISSORS



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ANSI /CSA

This manual is for MEWPs with serial numbers:

SJ3213 micro: A104 000 000 & above
SJ3219 micro: A104 000 000 & above

Please refer to the website (www.skyjack.com) for contact information, other serial numbers, the most recent technical manuals, animations and USB software.

The original instructions are in English.

THIS SAFETY ALERT SYMBOL MEANS ATTENTION!

BE ALERT! YOUR SAFETY IS INVOLVED.

The Safety Alert Symbol identifies important safety messages on MEWPs, safety signs in manuals or elsewhere. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

⚠ DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

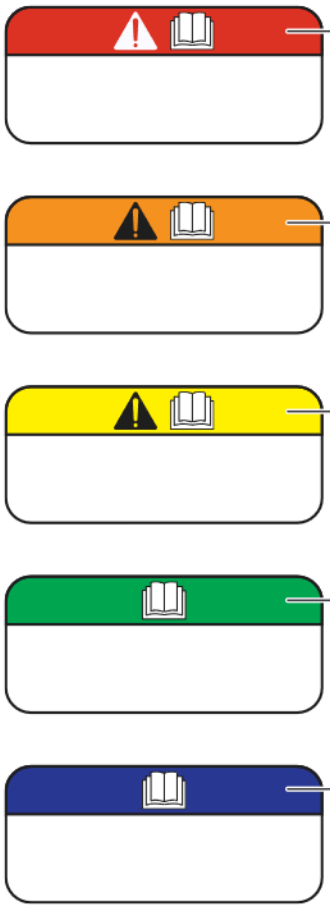
WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

IMPORTANT

IMPORTANT indicates a procedure essential for safe operation and which, if not followed, may result in a malfunction or damage to the MEWP.



Notes

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Section 1 – About this Mobile Elevating Work Platform (MEWP)

1.1 Read and Heed

Skyjack is continuously improving and expanding product features on its equipment; therefore, specifications and dimensions are subject to change without notice.

1.1-1 Mobile Elevating Work Platform (MEWP) definition

A MEWP is a mobile machine intended for moving persons, tools, and material to working positions. It consists of a work platform with controls, an extending structure, and a chassis.

1.1-2 Purpose of equipment

Skyjack DC Electric Micro Scissor lifts are designed to move personnel, tools, and materials to working positions.

1.1-3 Use of equipment

The MEWP is a highly maneuverable mobile work station. Only elevate the platform, or drive while elevated on a firm, level surface.

1.1-4 Operation manual

The operation manual is an essential part of the MEWP. It is important to always keep a copy of this manual in the weather-resistant manual storage box of the MEWP. The manual must be in good condition.

1.1-5 Operator

Before the operator operates the MEWP, they must read and completely understand this information:

1. The full contents of the operation manual, including the operating procedures, the MEWP limitations, the responsibilities of the operator for the operation and applicable maintenance, warnings and safety instructions.
2. The safety panel label on the platform, the labels on the MEWP and the attachments.

Compare the labels on the MEWP with the labels in this manual. Immediately replace any labels that are damaged or missing.

Only trained and authorized personnel are permitted to operate a MEWP.

The operator must be familiar with the employer's work rules and related government regulations.

1.1-6 Service policy and warranty

Skyjack warrants each new product to be free of defective parts and workmanship for the first 2 years. Your local Skyjack dealer will replace or repair any defective part, with no charge for parts or labour. In addition, all products have a 5-year structural warranty. Contact the Skyjack service department for warranty statement extensions or exclusions.

1.1-7 Ownership of Machine

Notify Skyjack of MEWP ownership. If you sell or transfer the ownership of a MEWP, promptly notify Skyjack of the new owner's contact information.

Skyjack needs this information to inform the owner of any updates or additional activities that are necessary to keep the machine in proper working condition.

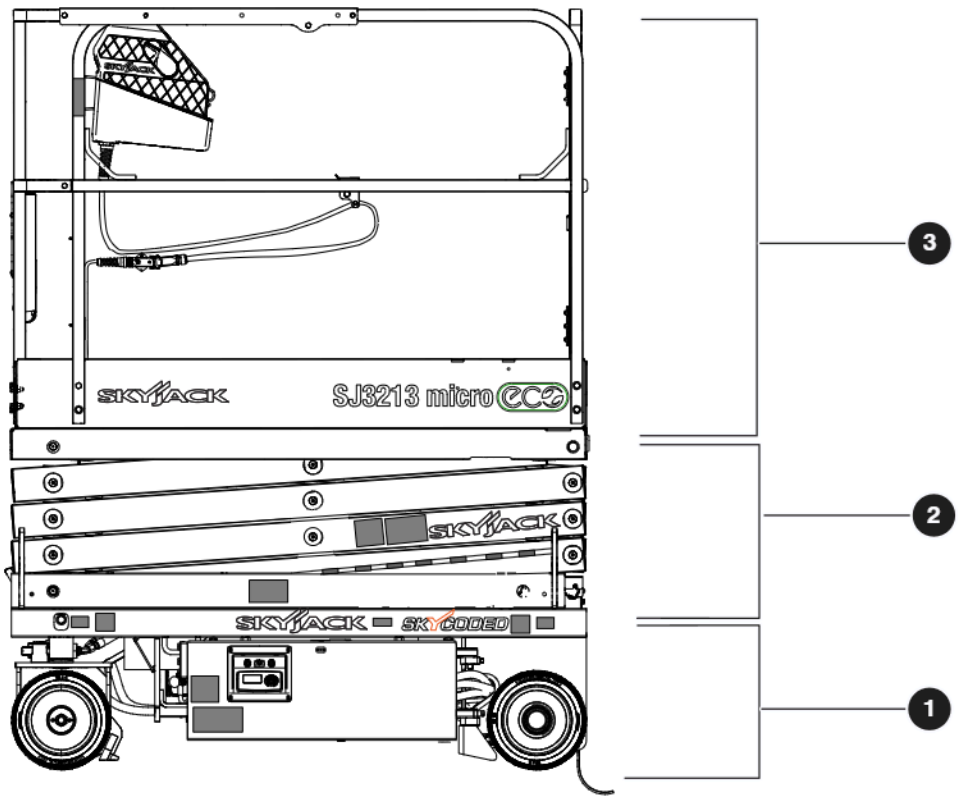
1.1-8 Optional Accessories

This MEWP accepts a variety of optional equipment. Refer to *Section 7.1* for a list of the optional accessories. Operating instructions for these options are located in *Section 5* of this manual.

For components or systems that are not standard, speak to the Skyjack Service Department. Give the model and serial number for each applicable MEWP.

1.1-9 Scope of this Manual

1. This manual applies to the ANSI/CSA version of the SJ DC Electric Micro Scissors series.
   - Equipment identified with ANSI meets the ANSI/SAIA A92.20-2018 standard.
   - Equipment identified with CSA meets the CSA B354.6:2017 standard.
   - Operators are required to conform to national, state or territorial/provincial and local health and safety regulations applicable to the operation of this MEWP.



1.2 Primary assemblies

The MEWP has these primary assemblies:

1. Base
2. Lift mechanism
3. Platform.

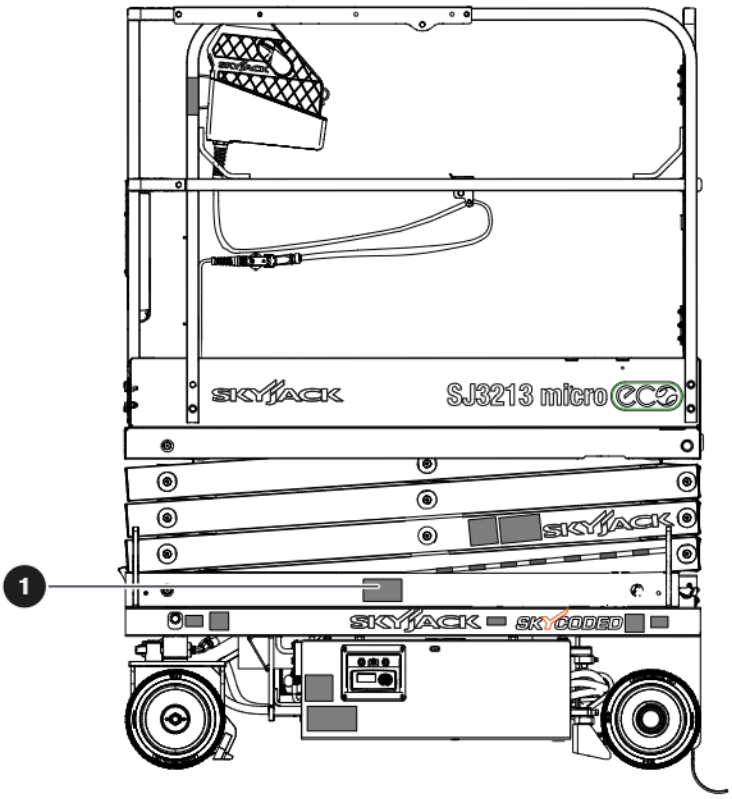
❶ **Base:** The base has these parts:

- Two trays which contain:
  - Hydraulic system and components
  - Electric system and components
  - Two batteries
- Emergency-lowering system on the entrance side of the MEWP.
- Base controls.
- Front wheels which:
  - are steered by a hydraulic cylinder.
  - are driven by two electric motors.
  - have spring-applied, electrically-released brakes.
- The rear wheels are non-driving.

❷ **Lift mechanism:** The lift mechanism is a scissor-type assembly. The scissor and the platform are raised and lowered by single-acting hydraulic lift cylinder with holding valves.

❸ **Platform:** You can enter and exit the platform from the rear through a spring-returned gate with a latch. The platform has these parts:

- Tubular support frame.
- Slip-resistant “diamond plate” deck surface.
- Tubular guardrails, with mid-rails, and toe boards.
- Front extension platform.
- Weather-resistant manual storage box containing important information for the MEWP.
- Platform controls.
- AC power outlet.



1.3 Serial number nameplate

The **serial number nameplate** ❶ is located at the left side of the MEWP. It contains this information:

- Model number
- Type
- Group
- Serial number
- Indoor or outdoor use
- Capacity and maximum number of persons
- Voltage
- Maximum drive height
- Maximum platform height
- Maximum wind speed
- Maximum manual force
- Model year
- MEWP weight
- System pressure
- Maximum incline
- QR Code

1.4 Maintenance responsibility

1.4-1 Operator

Before each shift starts, do all the daily inspections and function tests. Refer to *Section 4*.

1.4-2 Maintenance and inspection schedule

Refer to the service manual for frequent, periodic, and annual inspections.

The actual operating environment of the MEWP may affect the maintenance schedule.

IMPORTANT

Only use original or manufacturer-approved parts and components for the MEWP.

NOTE

Refer to the Skyjack web site (www.skyjack.com) for machine registration and latest service bulletins before you do frequent, periodic or annual inspections.

1.4-3 Owner

The owner is responsible for the maintenance inspections and repairs. Refer to the service manual for the recommended maintenance and inspection areas and intervals. Keep a record of the annual inspection on the label on the scissor assembly. Refer to *Section 7.2*.

⚠ WARNING

Only trained and qualified/competent personnel, who understand the mechanical procedures, may do maintenance on the MEWP. The use of a MEWP that is not correctly maintained or in the correct working condition could result in death or serious injury.

Section 2 – General Safety Precautions

⚠ WARNING

Failure to obey the instructions and precautions in this manual could result in MEWP damage, property damage, personal injury, or death.

It is mandatory that you use this MEWP correctly. Read this manual and make sure you fully understand it before you operate the MEWP.

Use personal protective equipment (PPE) to protect your eyes, ears, hands, feet, and body when you do work on or near machinery.

Any modifications to the MEWP must have written permission from Skyjack.

⚠ WARNING

Do not operate the MEWP if:

- **It does not operate correctly**
- **It is damaged, or shows worn or missing parts**
- **The safety devices are tampered with or disabled**
- **It is locked and tagged for servicing or repair**
- **It was modified without permission from Skyjack and the MEWP owner.**

If you do not obey, there is a risk of death or serious injury.

2.1 Electrocution hazards

The MEWP is not electrically insulated and does not provide protection from contact with or proximity to energized electrical conductors. Follow *Section 2.1-1* for the minimum distance to keep between all parts of the MEWP, occupants, or tools, and the electrical conductors. Consider MEWP movement and electrical line sway in minimum distance calculation.

If you need to work nearer than 3 m (10 ft), stop and apply control measures as determined by a qualified person with respect to electrical transmission and distribution.

Obey all the national, state/provincial/territorial and local safety rules.

2.1-1 Minimum distance from electrical conductors

Voltage Range	Minimum Distance from Electrical Conductors
≤ 50 KVA	3 m (10 ft)
> 50 KVA, or if not known	STOP and apply control measures as determined by a qualified person with respect to electrical transmission and distribution.

⚠ DANGER

Electrocution hazard. Keep all parts of the MEWP, occupants, or tools a safe distance away from power lines, electrical power sources, or energized sources. If you do not obey, there is a risk of death or serious injury.

Keep a minimum safe distance from sources of high-voltage power.

DO NOT operate the MEWP during lightning or storms.

⚠ CAUTION

DO NOT use the MEWP as a ground for welding. If you do not obey, there is a risk of minor or moderate injury, or malfunction or damage to the MEWP.

2.2 Safety instructions

⚠ WARNING

DO NOT operate this MEWP without the correct training and authorization. If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

DO NOT operate this MEWP in closed areas without sufficient airflow for exhaust gas and fumes. If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

Failure to heed the following safety precautions could result in tip-over, falling, crushing, or other hazards leading to death or serious injury.

KNOW all national, state/provincial or territorial, and local rules which apply to your MEWP and worksite.

MAKE SURE all the safety and instructional labels are correctly attached on the MEWP in the correct location. Clean or replace labels that you cannot read.

Disconnect and lock the main power disconnect on the left side of the MEWP when leaving the MEWP unattended to prevent unauthorized use.

DO NOT wear jewelry or loose clothing that could become caught or entangled.

DO NOT allow the entanglement of ropes, cables or hoses with the MEWP, adjacent structures or objects.

Prevent falls from the platform. Always keep a firm footing on the platform floor when working on it. Do not climb on the toe-board, mid-rail, or top-rail. Do not use planks, ladders, or any other devices on the platform for achieving additional height or reach.

DO NOT raise the platform or operate elevated in windy or gusty conditions that exceed the limits specified in *Section 7.4*.

DO NOT increase the surface area of the platform or carry large surface area items when exposed to wind. Increasing the area exposed to the wind will decrease the MEWP stability.

DO NOT elevate or drive elevated on a slope. Elevated driving must be done on a firm, level surface.

DO NOT drive elevated on a soft or uneven surface.

DO NOT raise the platform if it is not on a firm, level surface.

MAKE SURE the ground condition assessment considers the subsurface voids such as cellars, basements, culverts, and pipes.

DO NOT drive elevated near depressions or holes of any type, loading docks, debris, drop-offs or surfaces that may affect the stability of the MEWP.

IF OPERATION IN AREAS WITH HOLES OR DROP-OFFS IS ABSOLUTELY NECESSARY, elevated driving shall not be allowed. Position the MEWP horizontally only with the platform fully-lowered. After ensuring that all 4 wheels have contact with a firm, level surface, the platform can be raised. After elevation, the drive function must not be activated.

DO NOT ascend or descend grades greater than the maximum inclines listed in *Section 7.3*. Ascending or descending slopes must only be done when fully lowered.

DO NOT operate a MEWP that has ladders, scaffolding, or other devices on it to increase the platform size or work height.

DO NOT exceed the maximum side force on the capacity label when the platform is elevated. Refer to *Section 7.4*.

DO NOT use the MEWP as a crane.

DO NOT sit, stand, or climb on the guardrails.

DO NOT climb on the scissor arm assembly.

DO NOT collide or crush. Be aware of obstructions, personnel, or other possible hazards around the MEWP when elevating, lowering, or driving. Keep all body parts inside the platform when elevating or driving. Be aware of blind spots when operating the MEWP.

DO NOT elevate the platform when the MEWP is on a truck, forklift, or other device or vehicle.

DO NOT use the MEWP when the wheels or tires are damaged Make sure the wheel nuts are in place. Refer to *Section 4.2-4*.

DO NOT alter or disable limit switches or other safety devices.

DO NOT use the MEWP without guardrails, lock-pins, and the entry gate(s) in place.

DO NOT use the MEWP under the influence of alcohol or drugs, or if the operator's performance is impaired by a medical condition, the influence of prescription or over the counter drugs, or fatigue.

DO NOT exceed the rated capacity of the MEWP.

DO NOT distribute the load unevenly.

DO NOT use the MEWP if it does not function correctly or if any parts are damaged or worn.

DO NOT leave the MEWP unattended with the key in the key switch.

DO NOT operate on slippery surfaces without sufficient traction to stop, drive, or steer the MEWP.

STUNT driving and horseplay are prohibited.

DO NOT position the MEWP against another object to steady the platform.

DO NOT place materials on the guardrails or materials that exceed the confines of the guardrails unless approved by Skyjack.

Remove all personnel from the platform before you try to free a snagged platform with the base controls.

If an operator in the platform is incapacitated, use the base control to lower the platform to the ground. Use the emergency lowering procedure (refer to *Section 6.1*), if the primary power is unavailable.

2.3 Fall-protection

The guardrail system is the primary fall protection system of the MEWP platform.

If personal fall-protection equipment (PFPE) is required by an employer or the authority having jurisdiction, Skyjack recommends the use of a full body harness with a lanyard. The PFPE must be attached only to the approved fall-protection anchorage points in the platform.

All PFPE must be compliant with the applicable government rules and must be inspected as per the manufacturer's recommendation.

Use the three points of contact principle when you enter or exit the platform. This is when two hands and one foot or one hand and two feet are in contact with the MEWP or the ground at all times. Face the MEWP when entering or exiting the platform.

⚠ WARNING

Fall hazard.

- **Only enter and exit the MEWP using the three points of contact principle.**
- **Only use the equipped access openings.**
- **Only enter and exit the MEWP when the platform is fully lowered.**
- **Face the MEWP when entering or exiting the platform.**

Failure to follow these instructions could result in death or serious injury.

2.4 Worksite inspection

Make sure the operating environment, ambient temperature, electromagnetic compatibility (EMC), and hazardous location rating (locations with potentially flammable gases, explosive gases or particles) are appropriate for the MEWP specifications. Refer to *Section 7.5*.

Be sure to follow all national, state/provincial/territorial, and local rules that relate to operating the MEWP.

Perform a full worksite inspection before operating the MEWP. Identify potential hazards in the area.

Be aware of moving equipment in the area. Take the necessary precautions to prevent collisions.

It is the responsibility of the operator to perform a worksite inspection and avoid/address the following hazards:

- Holes or drop-offs
- Slopes
- Ditches or soft fills
- Floor obstructions, bumps, or debris
- Overhead obstructions
- Electrical conductors
- Hazardous locations
- Inadequate surface support to withstand all load forces imposed by the MEWP. Refer to *Section 7.6*.
- Wind and weather conditions
- Presence of personnel
- Other mobile equipment
- Traffic hazards
- Equipment that could move and collide with the MEWP, such as overhead cranes
- Other possible unsafe conditions.

Notes

Section 3 – Familiarization

⚠ WARNING

Do not operate this MEWP without correct training and authorization. If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

MEWP Familiarization must be given to a qualified operator. If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

It is the responsibility of the operator to fully understand, and follow all instructions and warnings contained in this operation manual and on the MEWP. If you do not obey, there is a risk of death or serious injury.

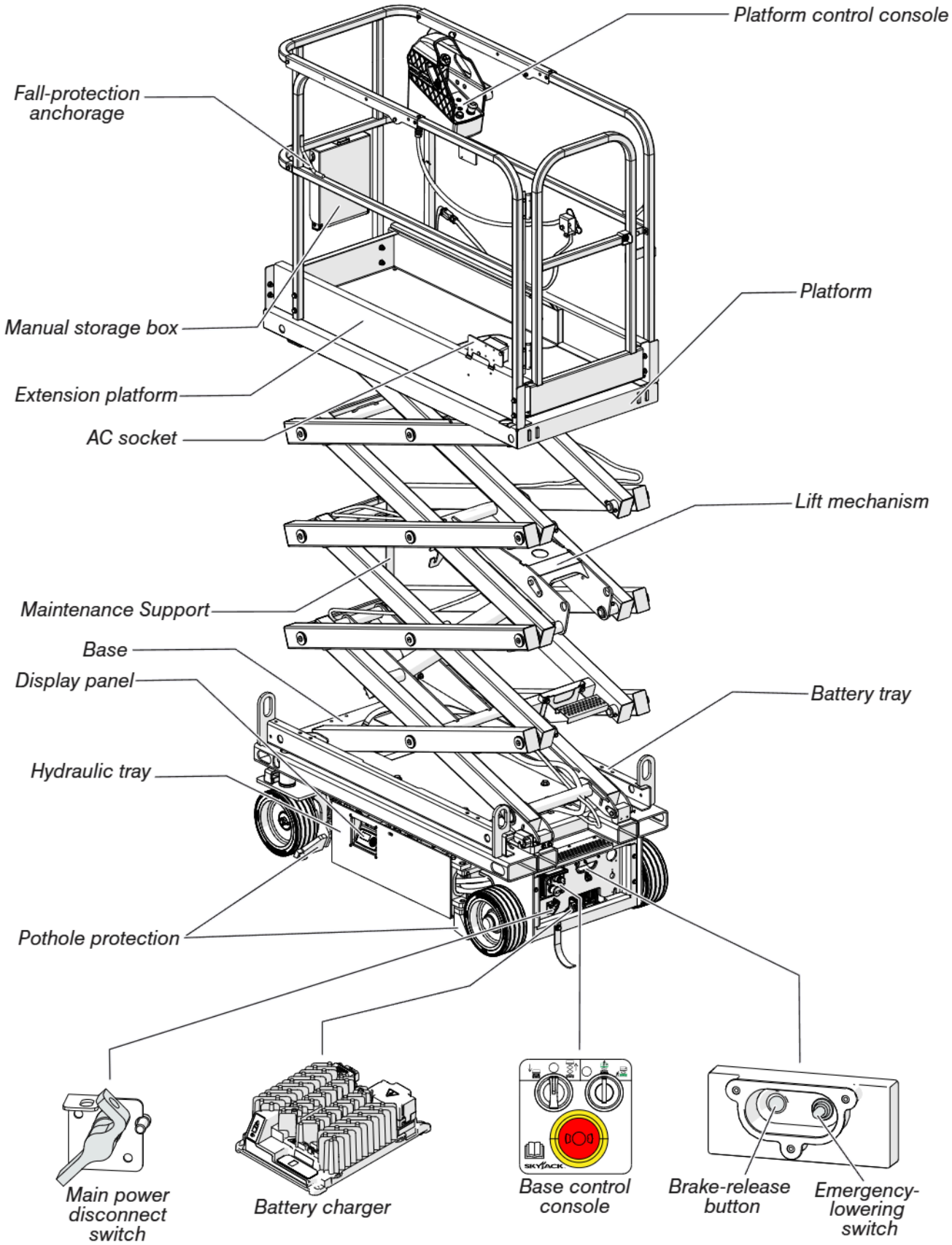
Read and fully understand the operation manual, all the warnings, and the instruction labels (refer to *Section 8*) on the MEWP.

Do these tasks before the operation:

1. Worksite inspection. Refer to *Section 2.4*.
2. Daily visual and maintenance inspections. Refer to *Section 4.2*.
3. Function tests. Refer to *Section 4.3*.

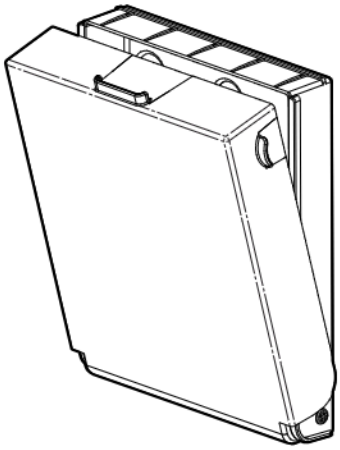
FAMILIARIZATION

3.1 Overview of the MEWP



3.2 Manual storage box

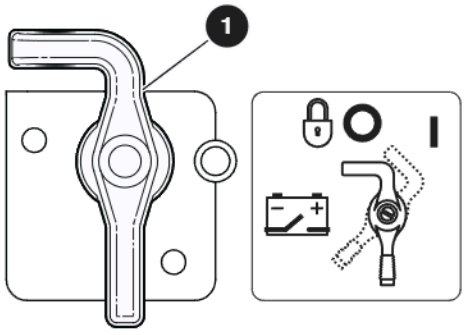
The manual storage box is weather-resistant. It contains the operation manual and other important documents. You must keep these documents in this box. Refer to *Section 3.1* for the location of the manual storage box.



3.3 Control functions

3.3-1 Main power disconnect switch

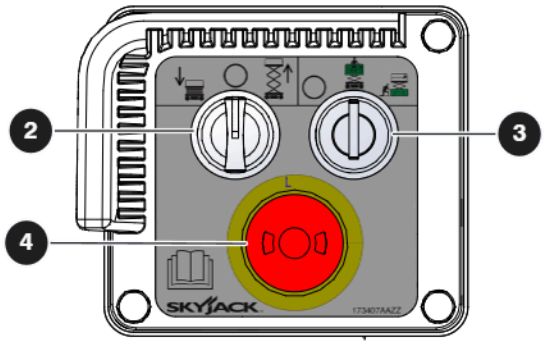
Refer to *Section 3.1* for the location of the main power disconnect switch.



❶ **Main power disconnect:** This switch disconnects power to all control circuits when in the off position. The switch must be in the on position to operate the MEWP. The switch must be in the off position when you transport the MEWP or put it in storage.

3.3-2 Base control console

Refer to *Section 3.1* or the location of the base control console.



❷ **Lower/off/raise:** This switch controls the platform raise or lower function.

❸ **Off/platform/base key:** With this three-way switch, you can:

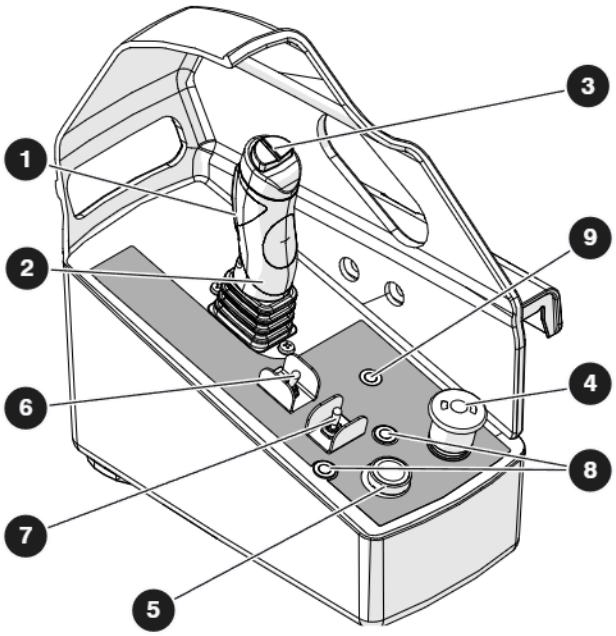
- Turn off the power to the MEWP controls.
- Energize the platform controls.
- Energize the base controls.

❹ **Emergency-stop:** This button disconnects power to the control circuit. Pull it to connect the power again.

3.3-3 Platform control console

Use this control console to operate the MEWP from the platform or the ground. To operate the MEWP from a position on the ground, refer to *Section 6.4.*

Refer to *Section 3.1* for the location of the platform control console.



1. **Lift/drive/steer function-enable switch:** This trigger switch energizes the controller handle. Squeeze and hold the switch continuously to engage the lift, drive, and steer functions.
2. **Lift/drive controller:** This one-hand lever controls the lift and drive movements. Release the controller to return it to its neutral position.
3. **Steering rocker switch:** This switch controls the left and right steering. Release the switch to return it to the neutral position.
4. **Emergency-stop/operation light/overload light:** This button disconnects the power to the control circuit.
   - When the light is on continuously, the platform controls are available.
   - When the light flashes, there is an overload. Refer to *Section 3.4-8*.

NOTE

Emergency lowering continues to be available when the platform emergency-stop button is pushed in.

5. **Horn:** This push-button makes a sound like a car horn.
6. **High speed/low speed drive switch:** This switch selects the low speed, or high speed.
7. **Lift/off/drive switch:** This switch has three modes.
   - The off position disconnects the power to both the lift and drive circuits.
   - The lift position energizes the lift circuit.
   - The drive position energizes the drive circuit.
8. **Lift or drive function indicator light:** The green light turns on to indicate the lift or drive function is enabled. If the function-enable switch is not used within 10 seconds to engage the lift or drive functions, the power to both circuits disconnects.
9. **Charge status indicator:** This indicator shows the battery charge state.
   - The amber light on the indicator momentarily turns on when power connects to all control circuits.
   - The amber light flashes when the MEWP has a low battery level and needs to be charged.

3.4 Features and Devices

3.4-1 Lowered travel position and elevated travel position

The available MEWP functions depend on these factors:

- MEWP configuration (lowered travel position/ elevated travel position)
- Chassis angle
- Platform load.

The MEWP is in the lowered travel position when the platform is below height “A” (refer to *Figure 01*).

The MEWP is in the elevated travel position when the platform is at or above height “A” (refer to *Figure 01*).

Models	A - Height	Maximum Drive Height
SJ3213 micro	< 1.82 m (6 ft)	Full height
SJ3219 micro	< 1.82 m (6 ft)	Full height

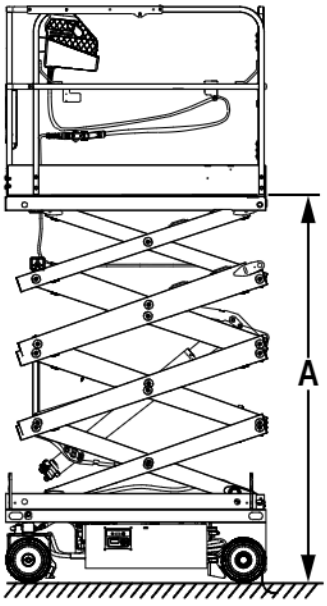


Figure 01 *Lowered and elevated travel position*

3.4-2 Drive speed

When the MEWP is in the elevated travel position, the speed is slower than when it is in the lowered travel position. Refer to *Section 7.3*.

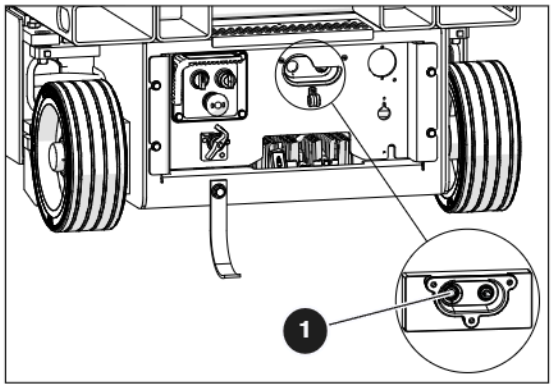
3.4-3 Tilt switch

This device senses when the MEWP has passed a predetermined angle in the longitudinal (front-to-back) or lateral (side-to-side) direction. Refer to *Section 7.5*.

When the MEWP is in the elevated travel position, the tilt switch disables the drive and lift functions. An alarm makes a sound, and an amber light (if equipped) flashes on the bracket on the lower scissor arm and on the base. If the alarm makes a sound, fully lower the platform. Level the MEWP before you raise the platform.

3.4-4 Brake release system

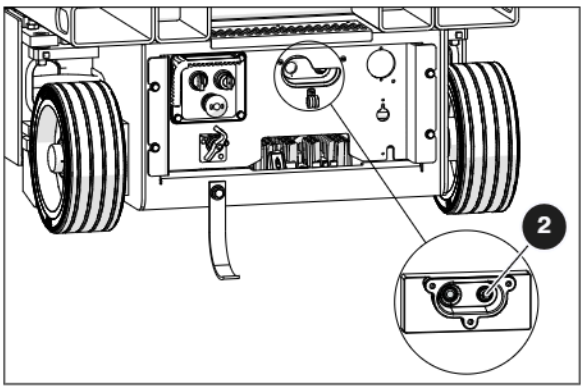
This system releases the brakes before you push, winch, or tow the MEWP. Refer to *Section 3.1* for the location of the brake release system. Refer to *Section 6.2* for the procedure.



❶ **Brake release switch**

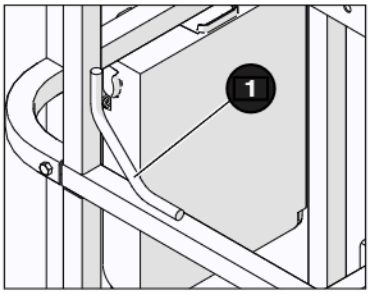
3.4-5 Emergency-lowering system

If there is a failure of the primary power, you can lower the platform with the emergency-lowering system. Refer to *Section 6.1* for the emergency-lowering procedure. Refer to *Section 3.1* for the location of the emergency-lowering handle.



❷ **Emergency-lowering switch**

3.4-6 Fall-protection anchorage



❶ **Fall-protection anchorage:** When required, use this as a point to attach personal fall protection equipment (PFPE). Do not attach the PFPE to any other points on the platform. Do not use this anchorage to lift, anchor, attach, or hold the platform, or other apparatuses or material.

⚠ WARNING

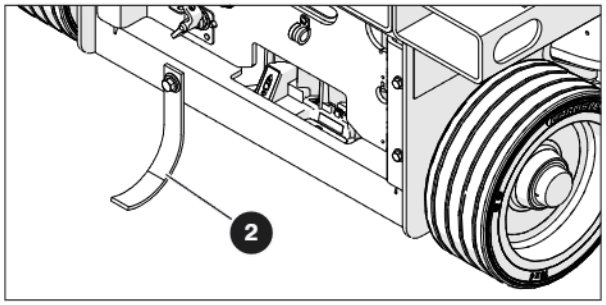
Only use the fall-protection anchorage in the limits of the platform. Do not use the fall-protection anchorage for other than its intended function (refer to *Section 2.3*). If you use it incorrectly, death, serious injury, and/or MEWP damage can occur.

3.4-7 Anti-static strip

The anti-static strip decreases the risk of an electrical shock.

⚠ WARNING

Electrical shock hazard. Do not touch or remove the anti-static strip from the MEWP. If you do not obey, there is a risk of minor or moderate injury, or malfunction or damage to the MEWP.



❷ **Anti-static strip**

3.4-8 Platform load-sensing system

The platform load-sensing system prevents normal MEWP movement when the platform is overloaded and in a stationary position. Refer to *Section 7.5* for platform capacities.

Load status	Result
The load on the platform is more than the rated load. All normal MEWP movement functions are unavailable except lowering.	The lights on the emergency-stop buttons on the platform and base control consoles flash continuously. The alarm sounds continuously with an increased frequency.

Remove the overload from the platform to continue the usual operation.

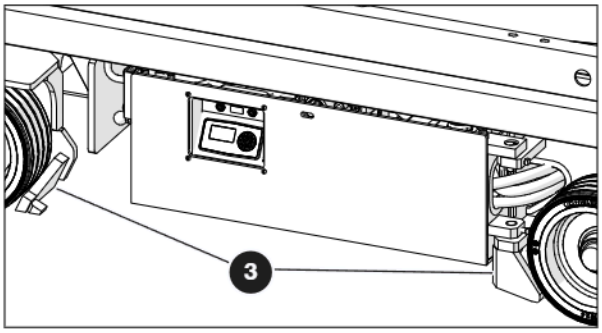
⚠ WARNING

Fall hazard. Do not try to free a snagged platform with the base controls until you remove all personnel from the platform. If you do not obey, there is a risk of death or serious injury.

NOTE

Emergency lowering continues to be available when the platform is overloaded.

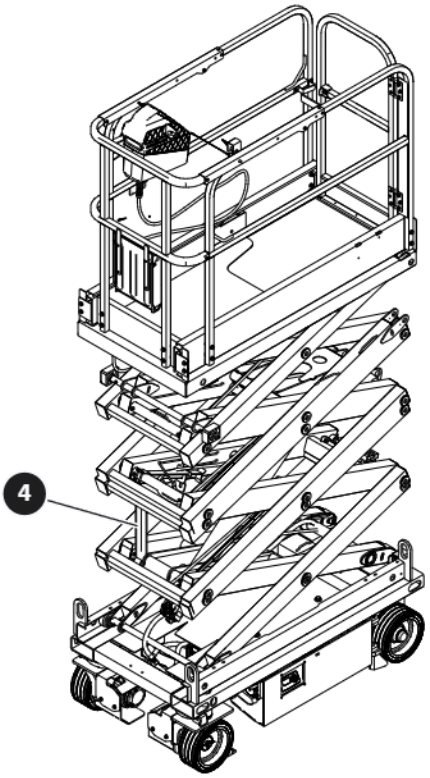
3.4-9 Pothole protection



❸ **Pothole protection**: These steel weldments reduce the ground clearance and assist in the stability of an elevated MEWP in the event of the MEWP encountering a drop-off or pothole.

3.4-10 Maintenance support

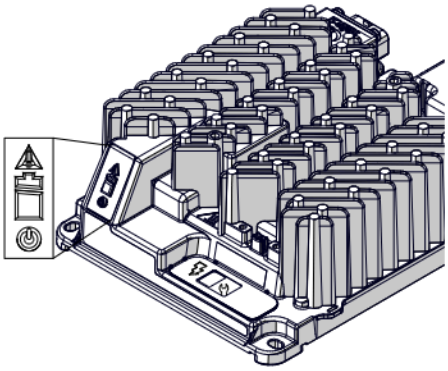
Use the **maintenance support** ❹ when you do an inspection of the lift mechanism or do maintenance. Refer to *Section 6.7* for the procedure on how to use the maintenance support.



3.5 General components

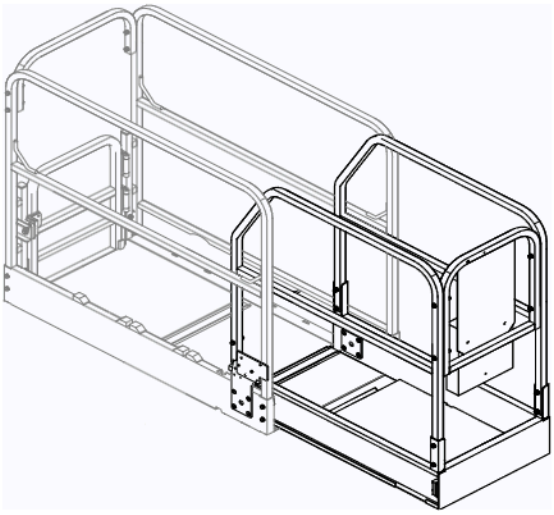
3.5-1 Battery charger

The charger is located at the base. Refer to *Section 6.6* for the battery charger operation.



3.5-2 Extension platform

The extension platform increases the length and area of the platform. Refer to *Section 5.9* on how to extend and retract the extension platform.

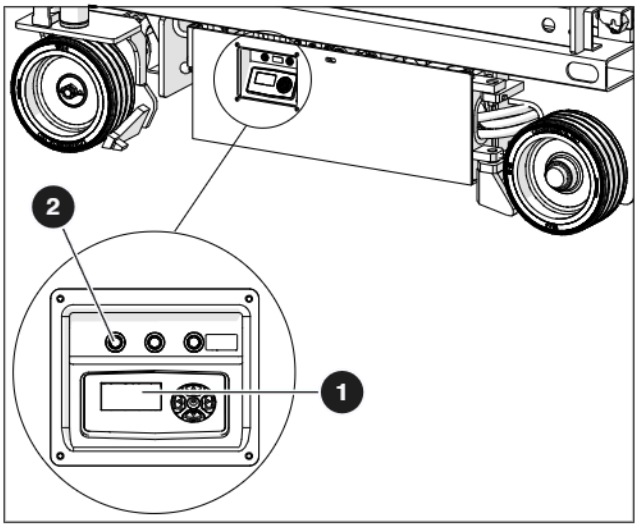


3.5-3 Motion alarm

The alarm makes a sound when a control functions operates. The flashing light operates with the audible sound.

3.5-4 Display panel

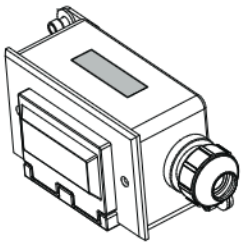
This display panel, located outside the hydraulic tray, shows operation and parameter information. Examples are the hours of operation, tilt angle, and error codes. It is also used to troubleshoot the MEWP.



1. **Display panel**
2. **Circuit breaker:** If a power overload or positive circuit grounding occurs, the circuit breaker opens. Push the **circuit breaker**-to reset the circuit.

3.5-5 AC power outlet on the platform

The AC power outlet is a source of AC power on the platform when the plug at the base is connected to an inverter or an external power supply.



⚠ WARNING

Do not use AC power on the platform when in hazardous areas.

3.6 Optional equipment

⚠ CAUTION

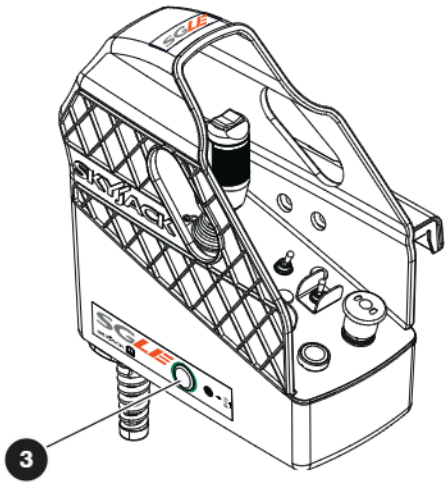
Skyjack-approved modifications and attachments can change the MEWP specifications. Refer to the applicable instructions and labels.

IMPORTANT

Refer to the labels of the optional equipment for the actual weight. Include this weight to calculate the total load on the platform. Include personnel and other materials in the total load.

The weight of the attached parts, panels, occupants, and tools put together must not be more than the rated platform capacity.

3.6-1 Secondary Guarding Lift Enable (SGLE) push-button



3. **SGLE:** This push-button energizes the lift function. Hold the button down together with the function-enable switch to raise the platform with the lift function.

NOTE

The SGLE does not have an effect on these functions: lower, drive, steer or emergency lowering.

3.6-2 Dual flashing lights

The flashing lights are attached to the base and flash when a lift or drive function is enabled or when the MEWP is overloaded.

3.6-3 Elevate™ telematics - access control unit

Access control is an added function of the Elevate™ telematics. The owner can control access to MEWP operation with this function. An Elevate™ telematics device and an access control unit keypad are necessary for this function.

The access control function does not have an effect on: emergency-lowering, load sensing, the horn, and when you lower the platform. These functions are always available. The access control unit does not allow the MEWP to operate without an approved code or card.

The MEWP owner supplies PIN codes or Smart ID cards to the operator to unlock and start the MEWP.

The owner also sets the timeout limits for the Elevate™ telematics access control unit.

IMPORTANT

Skyjack does not supply or reset PIN codes or Smart ID cards or set timeout limits. If there are problems with the access control unit or its operation, speak to the MEWP owner.

With the Trackunit Manager, the MEWP owner can customize the access control to the MEWP (*https://www.trackunit.com/services/manager/*).

The touch-sensitive keypad beeps to identify an input. Press the buttons to enter the pincode.

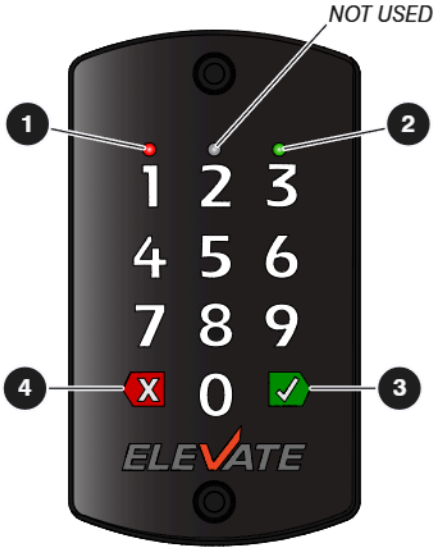


Figure 02 *Keypad of the access control unit*

1. **Orange indicator:** This light shows that the access control unit is on. The keypad always has power regardless of the emergency-stop, off/platform/base key switch, or main power disconnect position.
2. **Green/red indicator:** A green light shows that the access control unit is in operation. A red light that flashes shows that the keypad received a cancel input.
3. **Checkmark button:** Press this button after you enter a PIN code.
4. **Cancel button:** If you push an incorrect button when you enter the PIN code, push the cancel button to start again.

Operation

To operate a MEWP with an Elevate™ telematics access control unit:

1. Make sure the orange light on the keypad is on.
2. Turn these power connections on, if they are not already on:
   - The **main power disconnect** switch
   - The **emergency-stop button** on the base control console
   - The **off/platform/base key** switch.
3. Enter the keypad PIN code or tap the Smart ID card provided by the MEWP owner. Use one or the other, not both.

IMPORTANT

If the set time of the access control unit expires, enter the PIN code or tap the card again.

- Enter the PIN code on the **keypad** and press the **checkmark** button.

  Result: The orange light changes to green to indicate an approved ID.

OR

- Hold the **Smart ID card** in front of the keypad.

  Result: A beep identifies that the reader read the card. The green light identifies an approved ID.

4. Operate the MEWP.

Function Tests

Do the function tests as specified in *Section 4.3*.

When you do the function tests, make sure that the green light on the keypad is ON. This light confirms that the access control unit is in operation. Do the function tests for these power connections in the set time:

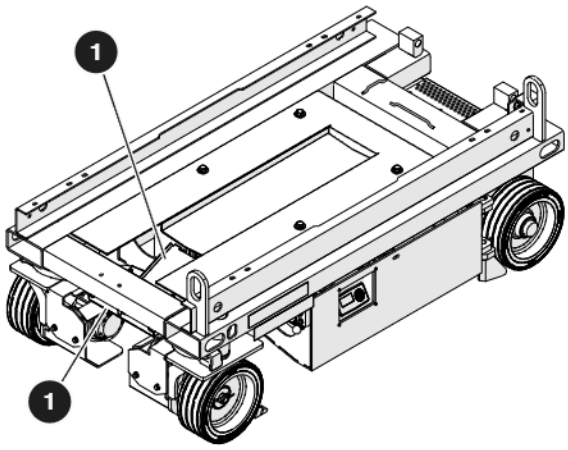
- The main power disconnect switch
- The emergency-stop button on the base control console
- The off/platform/base key switch.

3.6-4 White Noise Alarm

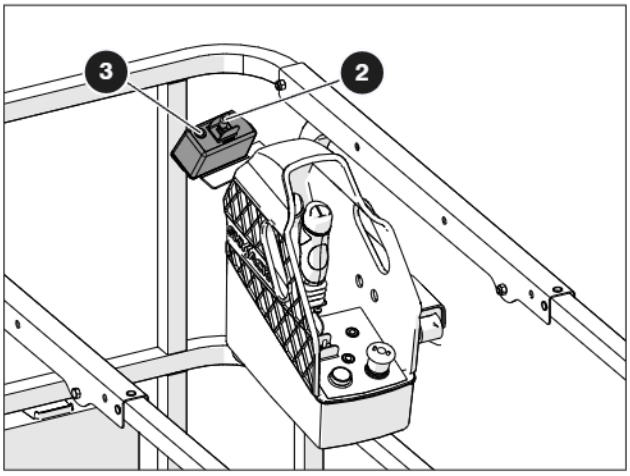
The white noise alarm makes a whooshing sound when a MEWP is operated. On some MEWPs an amber flashing light goes with this alarm.

3.6-5 EcoTray leak containment system

The **EcoTray system** ❶ is designed to prevent any potential leaks from the hydraulic system dripping on internal components or the floor.



3.6-6 Dual height control console



This function limits the height of the MEWP when the the outdoor mode is active. Refer to *Section 5.4* for the operation of the dual height function.

❷ **Dual height control switch:** This switch selects the indoor or the outdoor mode.

❸ **Dual height light**

Dual height light	Status
On	The indoor mode is on. The platform can go to the maximum height.
Off (SJ3213 micro)	The outdoor mode is on. The platform can only go to 3.66 m (12 ft).
Off (SJ3219 micro)	The outdoor mode is on. The platform can only go to 4.87 m (16 ft).

Section 4 – Inspections Before Operation

4.1 Operator's Responsibility

Do these tasks before each work shift in this sequence:

1. **Visual and daily maintenance inspections** (refer to *Section 4.2*).

⚠ WARNING

Do an inspection on the MEWP for damage or loose or missing parts. If damage is found, lock and tag the MEWP and remove it from service. If you do not obey, there is a risk of death or serious injury.

2. **Function tests** (refer to *Section 4.3*).

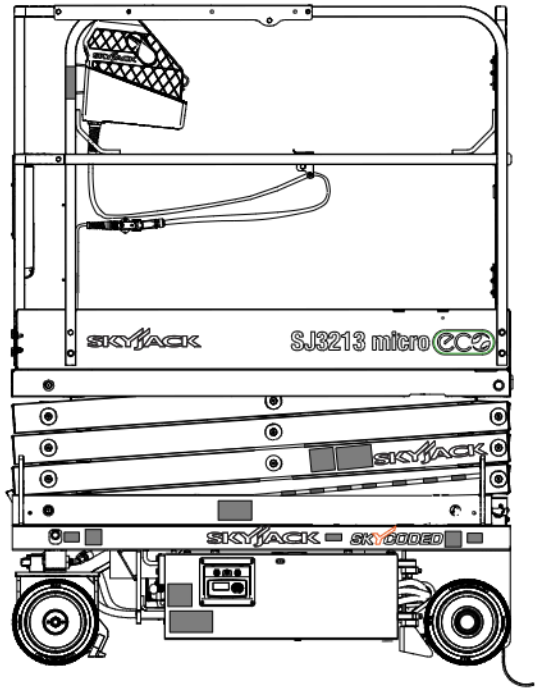
Refer to *Section 4.4* for a checklist of the inspection items.

⚠ WARNING

If the MEWP is damaged or has been modified from the initial factory-delivered condition, without permission from Skyjack, lock and tag the MEWP. Remove the MEWP for servicing. If you do not obey, there is a risk of death or serious injury.

Repairs to the MEWP are tasks only for a qualified service technician. Do the visual and daily maintenance inspections and function tests again after the repairs.

Scheduled maintenance inspections are a task only for a qualified service technician.



4.2 Visual and daily maintenance inspections

Do an inspection of the MEWP in this sequence:

⚠ WARNING

Make sure that the MEWP is on a firm, level surface before you do the visual and daily maintenance inspections. If you do not obey, there is a risk of machine damage.

⚠ WARNING

Turn the off/platform/base switch to the off position before you do the visual and daily maintenance inspections. If you do not obey, there is a risk of death or serious injury.

⚠ CAUTION

Do not operate a MEWP that does not function correctly. Lock and tag the MEWP, and remove it for servicing. Only a qualified service technician must repair the MEWP. If you do not obey, there is a risk of death or serious injury.

4.2-1 Labels

Refer to *Section 8* in this manual for the labels. Make sure all the labels are in the correct location, are in good condition, and you can read them.

4.2-2 Electrical

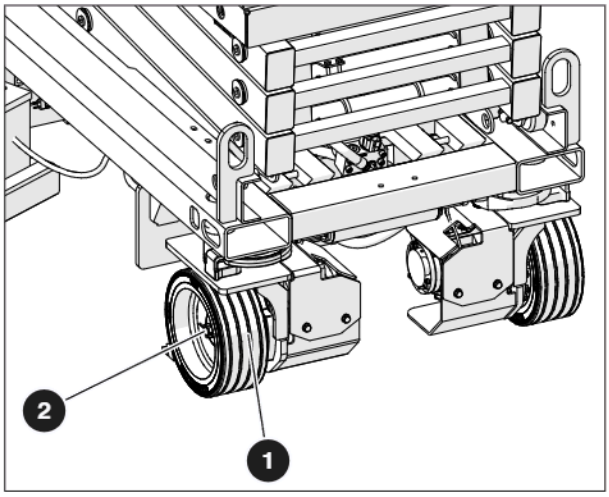
Do a check on these areas for chafed, corroded, and loose wires:

- Base to platform cables and wiring harness
- Battery tray wiring harnesses
- Hydraulic and electrical wiring harnesses.

4.2-3 Hydraulic

Do a check on these areas and make sure there are no signs of leakage:

- Hydraulic tank, fittings, hoses.
- All hydraulic cylinders
- All hydraulic manifolds
- The ground area below the MEWP



4.2-4 Wheel/tire assembly

Do the inspection that follows:

1 Wheel/tire assembly

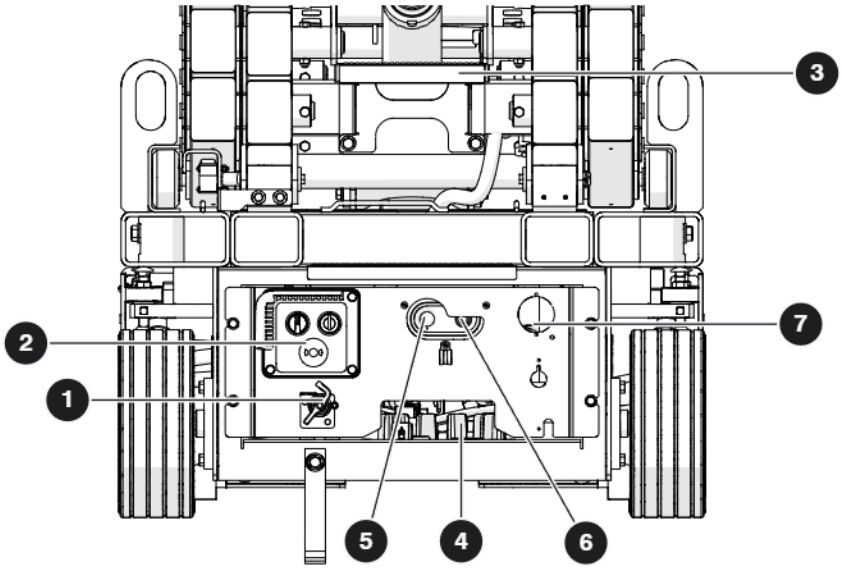
- Do a check on all the tire treads and sidewalls for cuts, cracks, and unusual wear.
- Do a check on each wheel for damage, and cracked welds.
- Make sure the wheels are correctly aligned vertically and horizontally.
- Make sure there is no visible damage.

⚠ WARNING

Do not use tires other than the tires that Skyjack specifies for this MEWP. Do not mix different types of tires or use tires that are not in good condition. Only replace the tires with the same types that are approved by Skyjack. The use of other tires can make the MEWP less stable. If you do not obey, there is a risk of death or serious injury.

2 Wheel nuts

- Make sure the castle nut is in position and is tight.
- Make sure the cotter pin is correctly installed.



4.2-5 Rear

Do the inspection that follows:

1 Main power disconnect switch

- Turn the **main power disconnect** switch to the off position.
- Make sure the switch rotates and stays in the on and off positions.

2 Base controls

- Make sure there is no visible damage and all the switches are in their off/neutral positions.

3 Ladder

- Make sure there are no loose or missing parts.
- Make sure there is no visible damage.

4 Battery charger

- Make sure the battery charger is correctly installed and in good condition.
- Make sure there is no visible damage.
- Make sure there are no damaged, altered, loose, or missing parts on the charger AC plug and cord. Make sure the charger plug is grounded correctly.

5 Brake release switch

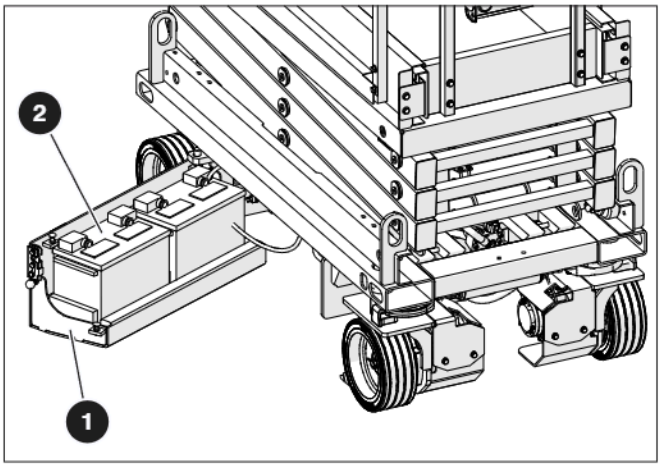
- Make sure there are no loose or missing fasteners.
- Make sure there is no visible damage.

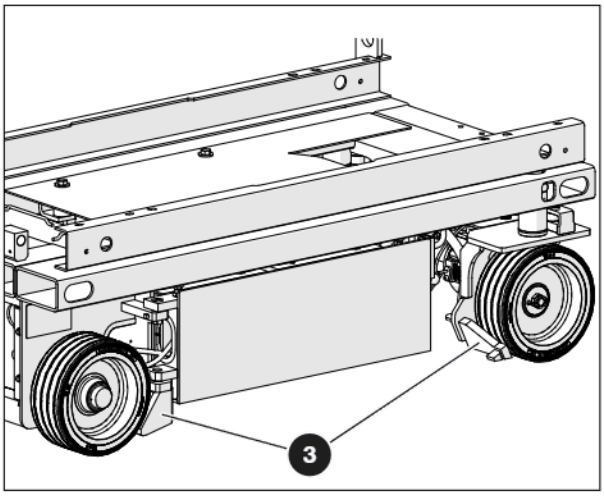
6 Emergency-lowering switch

- Make sure there are no loose or missing fasteners.
- Make sure there is no visible damage.

7 AC power socket

- Make sure the socket is free of dirt or blockages.





4.2-6 Battery tray

Do the inspection that follows:

❶ Battery tray

- Make sure the battery tray latches correctly and is in good condition.

❷ Batteries

⚠ WARNING

Explosion hazard. Keep flames and sparks away. Do not smoke near the batteries. Batteries release explosive gas while you charge them. Charge the batteries in a well-ventilated area. If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

Corrosion hazard. Do not touch battery acid. Wear the correct PPE. If the battery acid touches you, immediately flush the area with cold water and get medical aid.

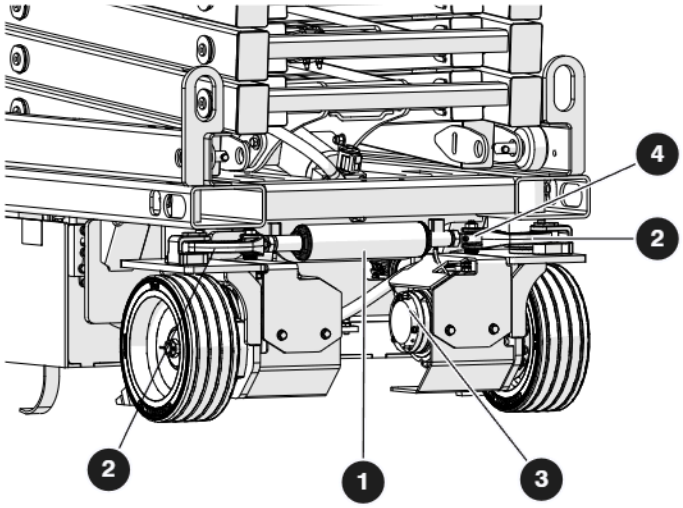
1. Do an inspection of the battery case for damage.
2. Make sure all the battery connections are tight.
3. If applicable, do a check on the battery fluid levels. If the plates do not have a minimum 13 mm (1/2 inch) of solution above them, add distilled or demineralized water.

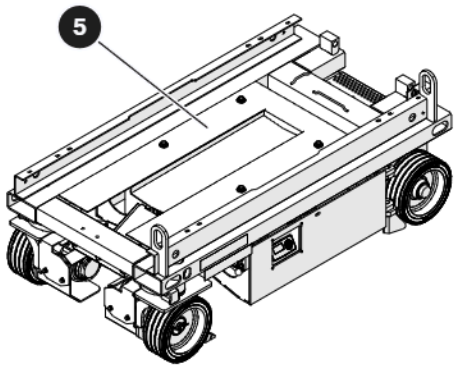
⚠ WARNING

Only use original or manufacturer-approved parts and components for the MEWP. If you do not obey, there is a risk of death, serious injury, or machine damage.

❸ Pothole protection

- Make sure there are no visible cracks or signs of damage or deformation.





4.2-7 Front

Do the inspection that follows:

1 Steer cylinder assembly

- Make sure that the steer cylinder assembly is correctly installed.
- Make sure there are no loose or missing fasteners.
- Make sure there is no visible damage.

2 Steer linkages

- Make sure there are no loose or missing fasteners and lock pins.
- Make sure the steer linkages and bushings are correctly attached.
- Make sure there is no visible damage.

3 Wheel/motor assembly

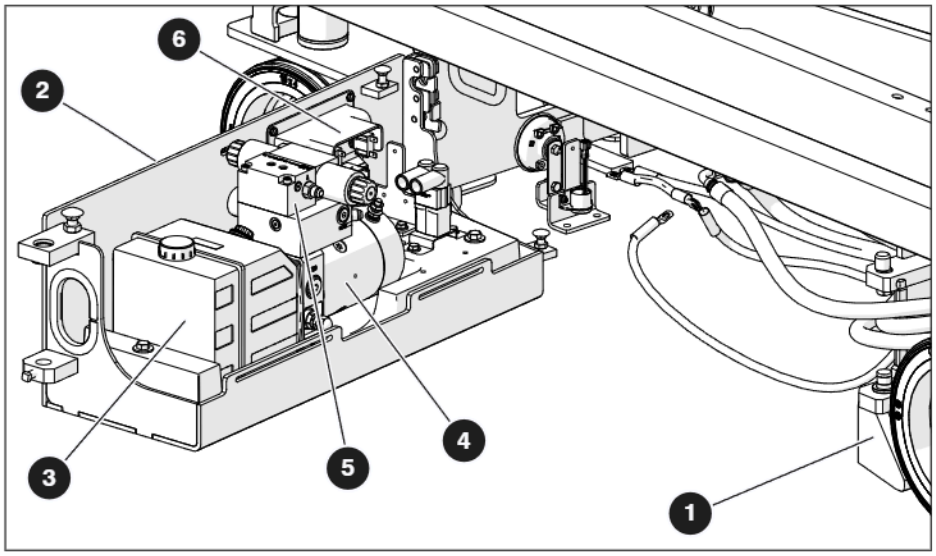
- Make sure there are no loose or missing fasteners.
- Make sure there is no visible damage.

4 Grease points

- Make sure there is no visible damage.
- Make sure there is no dirt or blockages.

5 EcoTray (optional equipment)

- Make sure there is no visible damage.
- Make sure there are no loose or missing parts.
- Make sure the absorbent pads are dry. If the absorbent pads contain hydraulic fluid, lock and tag the MEWP and remove it for servicing.



4.2-8 Hydraulic and electric tray

Do the inspection that follows:

1 Pothole protection

- Make sure there are no visible cracks or signs of damage or deformation.

2 Hydraulic and electric tray

- Make sure the hydraulic and electric tray latches correctly and is in good condition.

3 Hydraulic tank

- Make sure the hydraulic filler cap closes tightly.
- Make sure there is no visible damage or hydraulic leaks.
- **Hydraulic oil level:**
  1. Fully lower the platform.
  2. Do a check of the oil level of the hydraulic oil tank. The hydraulic oil level must be between minimum and maximum marks.

4 Hydraulic pump and motor

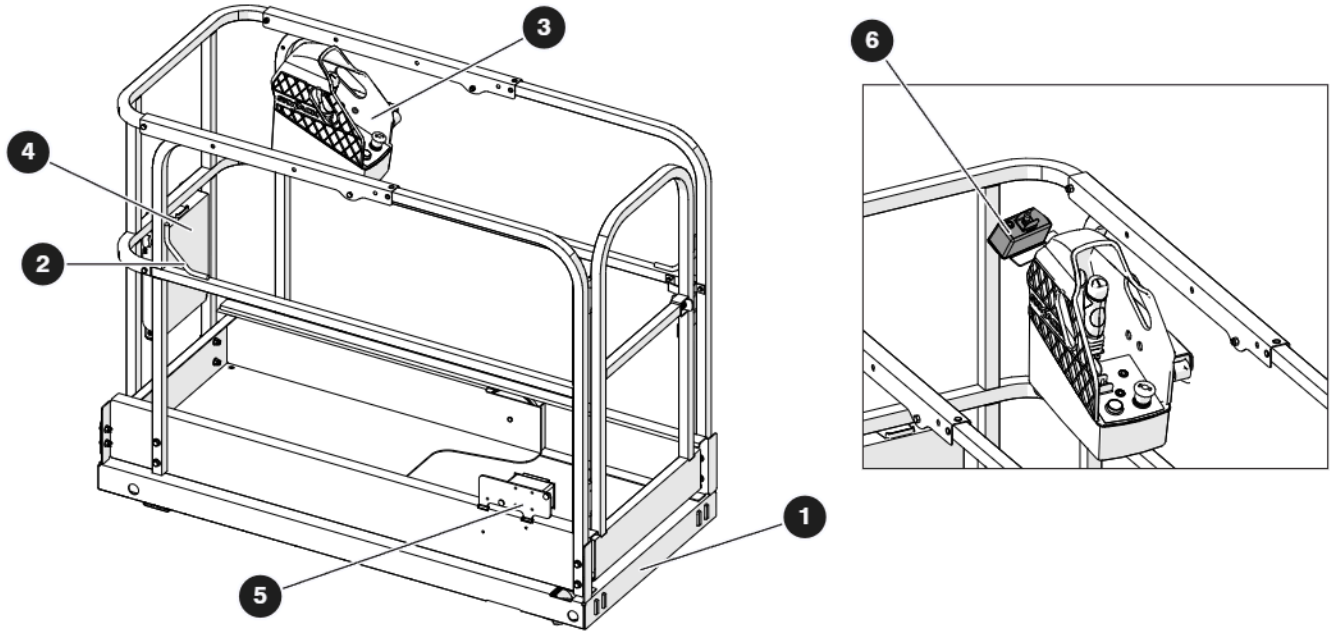
- Make sure there are no loose or missing fasteners.
- Make sure there is no visible damage.

5 Main manifold

- Make sure all fittings and hoses are correctly tightened.
- Make sure there is no indication of hydraulic leakage.
- Make sure there are no loose wires or missing fasteners.

6 Display panel

- Make sure the panel is correctly attached, and there is no visible damage.



4.2-9 Platform assembly

Do the inspection that follows in sequence:

⚠ WARNING

Fall hazard. Use the three points of contact principle when you use the MEWP ladder to enter or exit the platform. If you do not obey, there is a risk of death or serious injury.

1. Enter the platform and close the gate.

❶ Platform

- Make sure there are no loose or missing parts and there is no visible damage.
- Make sure the lock pins and fasteners are correctly locked.
- Make sure the **platform railings** are in the correct position and are locked with lock pins.
- Make sure the gate is in good condition and operates correctly.

❷ Fall-protection anchorages

- Make sure there is no visible damage.

❸ Platform control console

- Make sure the control console is locked with the lock pin.
- Make sure the platform control cable is correctly locked and there is no visible damage.

❹ Manual storage box

- Make sure the operation manual and other important documents are in the manual storage box.
- Make sure the documents are in good condition and you can read them.
- Always put the manuals and other documents back in the storage box after use.

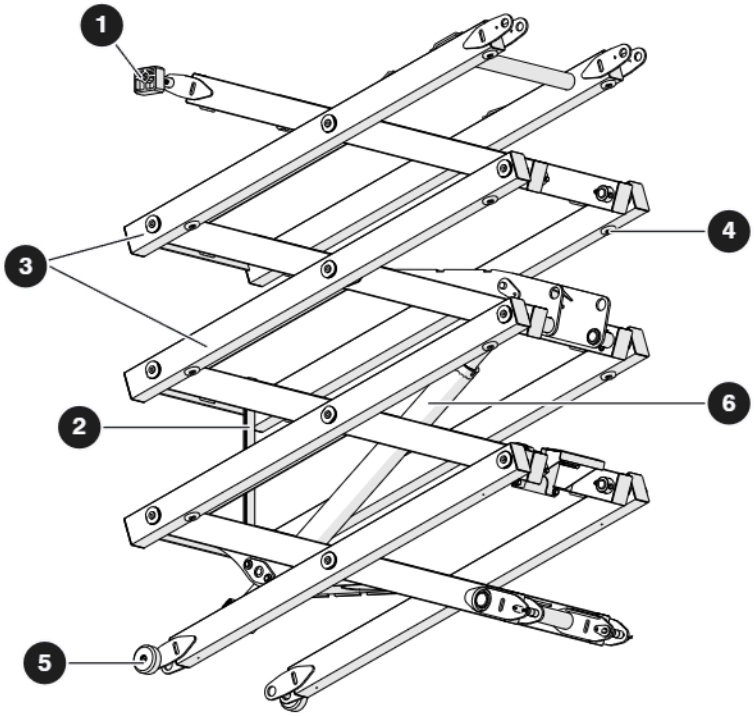
❺ AC power socket

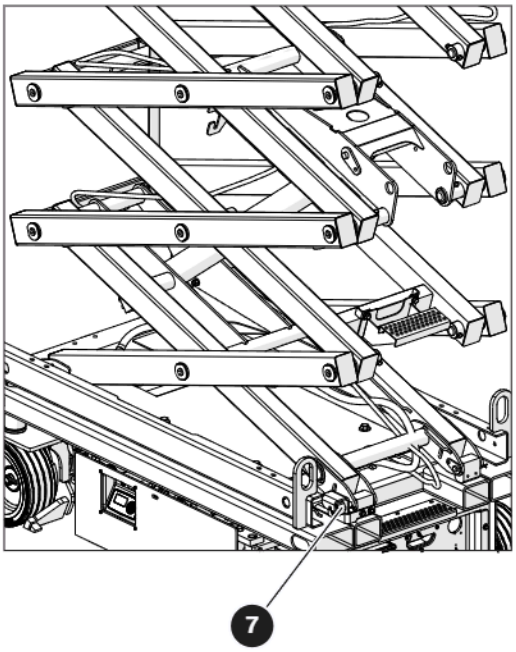
- Make sure the socket is free of dirt or blockages.

❻ Dual height control console (optional equipment)

- Make sure all switches are in the neutral position, and are correctly attached.
- Make sure there are no loose or missing parts.
- Make sure there is no visible damage.

2. Open the gate and use the MEWP ladder to exit the platform.





4.2-10 Lift mechanism

Do the inspection that follows in sequence:

❶ Sliders

- Make sure the sliders on the left and right sides of the scissor stack are correctly attached.
- Make sure there is no visible damage.
- Make sure there is no dirt or blockages in the slider paths.

1. Raise the platform (refer to *Section 5.2*) and deploy the maintenance support (refer to *Section 6.7*).

❷ Maintenance support

- Make sure the maintenance support is correctly attached and show no visible damage.

❸ Scissor assembly

- Make sure the scissor assembly shows no signs of visible damage, deformation, or cracks in the weldments.
- Make sure all the pins and fasteners are correctly installed, including the connections to the base and platform.
- Make sure the cables and wires have the correct routing, and shows no signs of wear or visible damage.

❹ Scissor bumpers

- Make sure the bumpers are correctly attached and have no visible damage.

❺ Rollers

- Make sure the rollers on the left and right sides of the scissors stack are correctly installed.
- Make sure there is no visible damage.
- Make sure there is no dirt or blockages in the rollers' travel path.

❻ Lift cylinder

- Make sure the lift cylinder is correctly installed.
- Make sure there are no loose or missing fasteners.
- Make sure there is no indication of leaks or damage.

❼ Rotary sensor

- Make sure the rotary sensor is correctly attached.

2. Retract the maintenance support into its storage bracket. Refer to *Section 6.7-2.*
3. Fully lower the platform.

4.3 Function Tests

⚠ WARNING

Do not operate this MEWP without correct training and authorization. If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

Do not operate a MEWP that does not function correctly. Lock and tag the MEWP, and remove it for servicing. Only a qualified service technician must repair the MEWP. If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

Fall hazard. Use the three points of contact principle when you use the MEWP ladder to enter or exit the platform. If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

Look for overhead obstructions or other possible hazards around the MEWP when you raise the platform. Do not lower the platform unless the area below is clear of personnel and obstructions. If you do not obey, there is a risk of death or serious injury.

Be sure you read *Section 5* before you do the function tests.

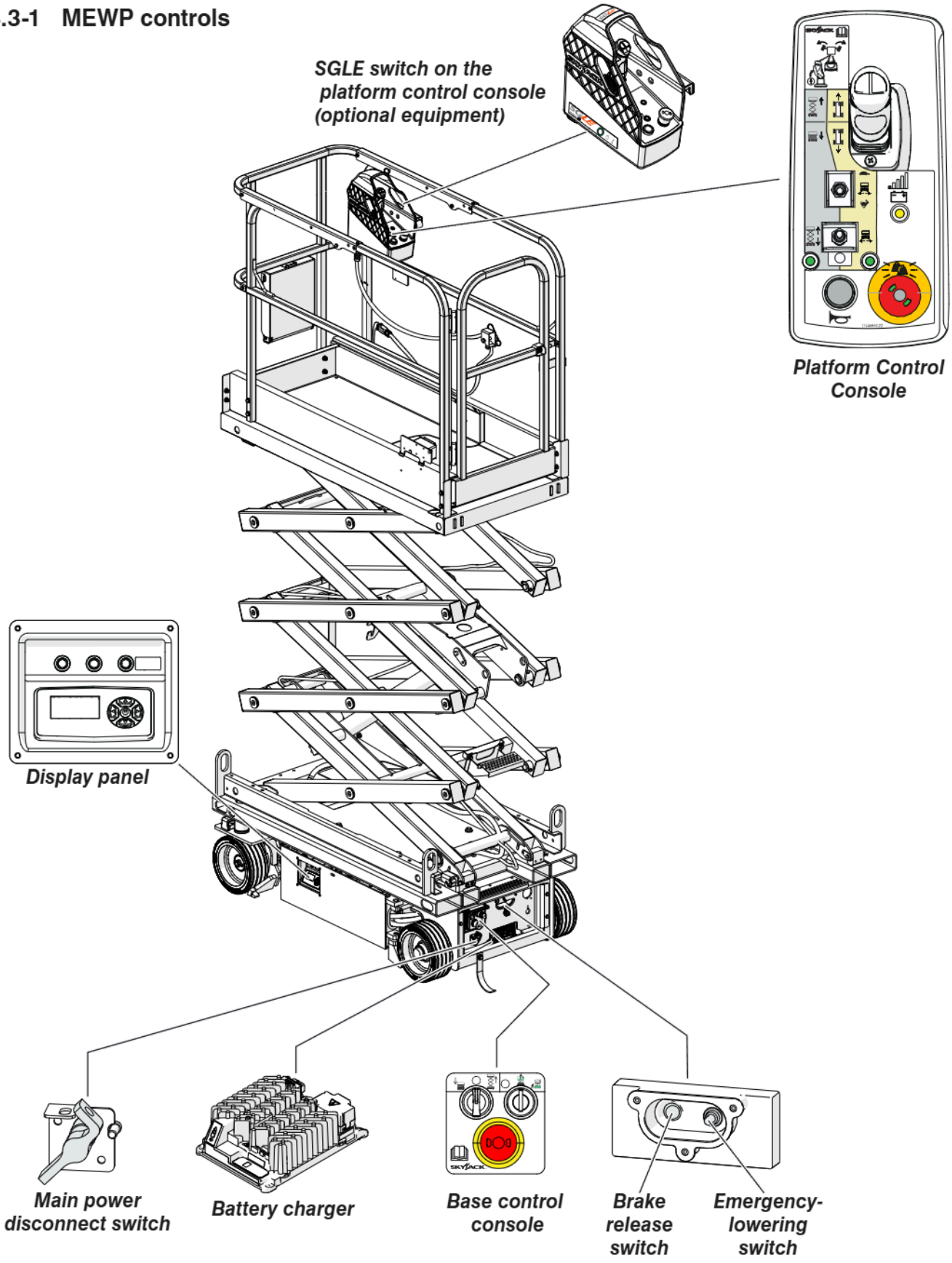
Refer to *Section 4.3-1* for diagrams of the MEWP controls.

Unless specifically noted otherwise, make sure the following conditions are true before you do the function tests:

1. Park the MEWP on a firm, level surface.
2. Retract and lower the MEWP to the stowed position.
3. Turn the main power disconnect switch on.
4. Pull out the emergency stop button on the base control console.
5. Make sure there is sufficient space to do the raise, lower, and drive functions as required.

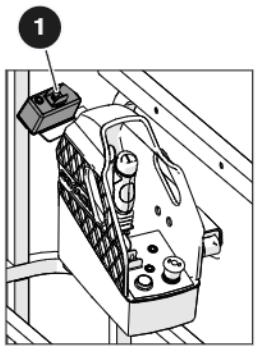
If a function operates correctly, proceed with the next test. If a function fails or an error code appears on the display panel, lock and tag the MEWP and remove it for servicing.

4.3-1 MEWP controls



Functions	Actions
Do these function tests from the base control console.	
Main power disconnect switch *(Refer to Section 5.1)*	1. Turn the **main power disconnect** switch to the off position. 2. Pull the **emergency-stop** button. 3. Use the base controls to raise or lower the platform. ▪ **Result:** The platform does not raise or lower.
Base emergency-stop button *(Refer to Section 5.1)*	1. Turn the **main power disconnect** switch to the on position. 2. Push the **emergency-stop** button. 3. Use the base controls to raise or lower the platform. ▪ **Result:** The platform does not raise or lower.
Raise and lower *(Refer to Section 5.2)*	1. Pull the **emergency-stop** button. 2. Turn and hold the **off**/**platform**/**base key** switch to the base position. 3. Turn and hold the **lower**/**neutral**/**raise** switch to the raise or lower position. ▪ **Result:** The platform rises or lowers.
Emergency lowering *(Refer to Section 6.1)*	1. Raise the platform. 2. Use the emergency-lowering switch to lower the platform. ▪ **Result:** The platform lowers.
Flashing light (Optional equipment)	1. Use base controls to raise the platform or drive the MEWP. ▪ **Result:** The light flashes. 2. Stop all the MEWP motion. ▪ **Result:** The light does not flash.
Do these function tests from the platform control console	
Platform emergency-stop button *(Refer to Section 5.3)*	1. Push the **emergency-stop** button. 2. Use the platform controls to try to drive the MEWP. ▪ **Result:** The MEWP does not drive.
Function-enable switch	1. Pull the **emergency-stop** button. 2. Do not use the **function-enable** switch, and try to drive the MEWP by moving the controller handle forward. ▪ **Result:** The MEWP does not drive. 3. Release the controller.
Steer *(Refer to Section 5.7)*	1. Squeeze and hold the **function-enable** switch. 2. Press the **steering rocker** switch on the top of **controller handle** to steer left and right. ▪ **Result:** The steer wheels turn left and right.

Functions	Actions
Drive *(Refer to Section 5.6)*	1. Squeeze and hold the **function-enable** switch. 2. Slowly pull the **controller handle** forward until the MEWP starts to move. 3. Release the **controller handle** so that it goes back to the center position. ▪ **Result:** The MEWP moves forward and then stops. 4. Slowly pull the **controller handle** backward until the MEWP starts to move. Then, release the handle, so that it goes back to the center position. ▪ **Result:** The MEWP moves backward and then stops.
Anti-tiedown	1. Release the **controller handle** and do not use the **function-enable** switch. ▪ **Result:** The green light on lift/off/drive switch turns off after 10 seconds. 2. Squeeze and hold the **function-enable** switch for at least 7 seconds then slowly push the **controller handle** to drive the MEWP forward. ▪ **Result:** The MEWP does not drive forward.
Brakes	**IMPORTANT** **The brakes engage instantly when you release the function-enable switch. This causes the MEWP to stop immediately.** 1. Drive the MEWP forward and rearward. Release the **controller handle.** ▪ **Result:** The MEWP stops. Do not operate the MEWP if it pulls to one side while it stops. A service technician must do a check on the brake adjustments. 2. Drive the MEWP forward and rearward. Release the **function-enable** switch only. ▪ **Result:** The MEWP stops. Do not operate the MEWP if it it pulls to one side while it stops. A service technician must do a check on the brake adjustments. 3. Drive the MEWP forward and rearward. Push the emergency-stop button only. ▪ **Result:** The MEWP stops abruptly.
Raise and lower *(Refer to Section 5.4)*	1. Move the **lift**/**off**/**drive** switch to the lift position. 2. Squeeze and hold the **function-enable** switch. 3. Push the **controller handle** to raise or pull the **controller handle** to lower the platform. ▪ **Result:** The platform rises or lowers.
Horn	1. Push the **horn** button. ▪ **Result:** The horn makes a sound.
Elevated travel speed	1. Raise the platform until it is at a height of approximately 1.8 m (6 ft). 2. Drive the MEWP forward and rearward. ▪ **Result:** The MEWP drives slower than when it was in the lowered travel position.

Functions	Actions
Dual height control console (if equipped)  	1. Lift the **dual height** ❶ switch and select the outdoor (wind) position. 2. <u>For SJ3213 micro:</u> Raise the platform to 3.66 m (12 ft). ▪ **Result:** The platform rises to 3.66 m (12 ft) and then stops. <u>For SJ3219 micro:</u> Raise the platform to 4.87 m (16 ft). ▪ **Result:** The platform rises to 4.87 m (16 ft) and then stops. 3. Lift the **dual height** switch and select the indoor (no wind) position. 4. Raise the platform to full height. 5. Lift the **dual height** switch and select the outdoor (wind) position. ▪ **Result:** The alarm makes a sound. 6. Raise the platform. ▪ **Result:** The platform does not rise. 7. Drive the MEWP forward. ▪ **Result:** The MEWP does not move. 8. Lower the platform. ▪ **Result:** The platform lowers.
SGLE (Optional equipment) *(Refer to Section 5.5)*	1. Do not push the SGLE button. 2. Raise the platform. ▪ **Result:** The platform does not raise. 3. Push the **SGLE** button. Squeeze the **function-enable** switch. 4. Raise the platform. ▪ **Result:** The platform rises. 5. Pull the controller handle to fully lower the platform.

4.4 Operator's Checklist (page 1 of 2)

SJ3213, SJ3219 Micro Scissors Daily Operator's Checklist

Serial Number: _____
Model: _____
Hourmeter Reading: _____
Date: _____
Time: _____

Operator's Name (Printed): _____

Operator's Signature: _____

Use the applicable section of the operation manual to inspect each item. Check or complete the applicable box for each item as you inspect it.

P PASS
N/A NOT APPLICABLE

Add a comment if the item does not pass inspection.

	P	N/A	Comments
Visual and Daily Maintenance Inspections			
Labels - Do an inspection for damaged, or missing labels			
Electrical - Do an inspection for loose, damaged, or missing components			
Hydraulic - Do an inspection for loose, damaged, or missing components			
Wheel/tire assembly - Do an inspection for loose, damaged, or missing components			
Wheel/tire assembly			
Wheel nuts			
Rear - Do an inspection for loose, damaged, or missing components			
Main power disconnect switch			
Base control			
Ladder			
Battery charger			
Brake release switch			
Emergency lowering switch			
AC power plug (optional equipment)			
Battery tray side - Do an inspection for leaks and loose, damaged, or missing components			
Pothole protection			
Battery tray			
Batteries			
Front - Do an inspection for leaks and loose, damaged, or missing components			
Steer cylinder assembly			
Steer linkages			
Wheel/motor assembly			
Greasing points			
EcoTray (optional equipment)			
Hydraulic and electric tray side - Do an inspection for leaks and loose, damaged, or missing components			
Pothole protection			
Hydraulic and electric tray			
Hydraulic tank			
Hydraulic pump and motor			
Main manifold			
Display panel			

NOTE: *Make a copy of this page or go to www.skyjack.com for a copy that you can print.*

4.4 Operator's Checklist (page 2 of 2)

	P	N/A	Comments
Visual and Daily Maintenance Inspections			
Platform assembly - Do an inspection for loose, damaged, or missing components			
Platform and platform railings			
Fall-protection anchorages			
Platform control console			
Manual storage box			
AC power socket (optional)			
Dual height control console (optional equipment)			
Lift mechanism - Do an inspection for loose, damaged, or missing components			
Sliders			
Maintenance support			
Scissor assembly			
Scissor bumpers			
Rollers			
Lift cylinder			
Rotary sensor			
Optional equipment and attachments - Do an inspection for leaks and loose, damaged, or missing components			
Function Tests			
Do these function tests from the base control console.			
Do a test of the main power disconnect switch			
Do a test of the emergency-stop button on the base			
Do a test of the platform raise and lower functions			
Do a test of the emergency-lowering function			
Do a test of flashing light (Optional equipment)			
Do these function tests from the platform control console.			
Do a test of the emergency-stop button on the platform			
Do a test of the function-enable switch			
Do a test of the steer function			
Do a test of the drive function			
Do a test of the anti-tiedown function			
Do a test of the brakes			
Do a test of the platform raise and lower functions			
Do a test of the horn			
Do a test of the elevated travel speed			
Do a test of the SGLE switch (optional equipment)			
Do a test of the dual height control console (optional equipment)			

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NOTE: *Make a copy of this page or go to www.skyjack.com for a copy that you can print.*

Section 5 – Operation

⚠ WARNING

Do not operate this MEWP without authorization and training. If you do not obey, there is a risk of death or serious injury.

Do these tasks in sequence before MEWP operation:

1. Visual and daily maintenance inspections. Refer to *Section 4.2*.
2. Function tests. Refer to *Section 4.3*.
3. Worksite inspection. Refer to *Section 2.4*.
4. If a risk assessment finds that a rescue plan is necessary, make sure you have a system of communication. The communication must be between the personnel on the platform and the selected support personnel. The selected support personnel must know how to use the base controls to lower the platform.

⚠ WARNING

Do not operate the MEWP if:

- **It does not operate correctly**
- **It is damaged, or shows worn or missing parts**
- **The safety devices are tampered with or disabled**
- **It is locked and tagged for servicing or repair**
- **It was modified without permission from Skyjack and the MEWP owner.**

If you do not obey, there is a risk of death or serious injury.

5.1 Energize the base control console

1. Turn the **main power disconnect** switch to the on position.
2. Pull the **emergency-stop** button on the base control console.

⚠ WARNING

If you do not hear a beep and the light does not come on, lock and tag the MEWP. Remove the MEWP for servicing. If you do not obey, there is a risk of death or serious injury.

3. Turn and hold the **off**/**platform**/**base key** switch to the base position.

5.2 Raise or lower the platform with the base control console

1. Energize the base control console (refer to *Section 5.1*).

⚠ WARNING

Look for overhead obstructions or other possible hazards around the MEWP when you raise the platform. Do not lower the platform unless the area below is clear of personnel and obstructions. If you do not obey, there is a risk of death or serious injury.

2. Turn and hold the **lower**/**off**/**raise** switch in the raise or lower position to raise or lower the platform. Release the switch to stop.

5.3 Energize the platform control console

1. Turn the **main power disconnect** switch to the on position.
2. Pull the **emergency-stop** button on the base control console.

⚠ WARNING

If you do not hear a beep and the light does not come on, lock and tag the MEWP. Remove the MEWP for servicing. If you do not obey, there is a risk of death or serious injury.

3. Turn the **off/platform/base key** switch to the platform position.

⚠ WARNING

Fall hazard. Use the three points of contact principle when you use the MEWP ladder to enter or exit the platform. If you do not obey, there is a risk of death or serious injury.

4. Enter the platform and close the gate.
5. Pull the **emergency-stop** button on the platform control console.

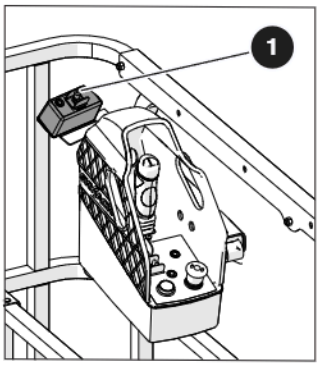
5.4 Raise or lower the platform with the platform control console

1. Energize the platform control console (refer to *Section 5.3*).

⚠ WARNING

Look for overhead obstructions or other possible hazards around the MEWP when you raise the platform. Do not lower the platform unless the area below is clear of personnel and obstructions. If you do not obey, there is a risk of death or serious injury.

2. If equipped:
   Lift the **dual height** switch ❶ and select the indoor (no wind) or outdoor (wind) position.



3. Move the **lift/off/drive** switch to the lift position.
4. The indicator light turns green to indicate the lift function is enabled.
5. Squeeze and hold the **function-enable** switch.

NOTE

The drive or lift function is enabled for 10 seconds. The power to both drive and lift circuits disconnects if the function-enable switch is not used within 10 seconds.

6. Move the **controller handle** until you are at the necessary height..

NOTE

The lower function is not proportional.

7. Squeeze the **function-enable** switch.
8. Pull the **controller handle** to lower the platform.
9. Move the **controller handle** to the neutral central position to stop. Release the **function-enable** switch.

⚠ WARNING

If the tilt alarm makes a sound, and the platform does not rise or does not fully rise:

1. **Fully lower the platform immediately.**
2. **Make sure the MEWP is on a firm, level surface.**

If you do not obey, there is a risk of death or serious injury.

5.5 Raise and lower with the SGLE platform control console (optional equipment)

1. Energize the platform control console (refer to *Section 5.3*).

⚠ WARNING

Look for overhead obstructions or other possible hazards around the MEWP when you raise the platform. Do not lower the platform unless the area below is clear of personnel and obstructions. If you do not obey, there is a risk of death or serious injury.

2. Move the **lift**/**off**/**drive** switch to the lift position.
3. Push and hold the **SGLE** push-button and squeeze and hold the **function-enable** switch.

NOTE

The drive or lift function is enabled for 10 seconds. The power to both drive and lift circuits disconnects if the function-enable switch is not used within 10 seconds.

4. Move the **controller handle** until you are at the necessary height.
5. Squeeze the **function-enable** switch.
6. Pull the **controller handle** to lower the platform.
7. Move the controller handle to the neutral central position to stop. Release the **function-enable** switch.

NOTE

The SGLE does not have an effect on these functions: lower, drive, steer or emergency lowering.

⚠ WARNING

If the tilt alarm makes a sound, and the platform does not rise or does not fully rise:

1. **Fully lower the platform immediately.**
2. **Make sure the MEWP is on a firm, level surface.**

If you do not obey, there is a risk of death or serious injury.

5.6 Drive forward or rearward

⚠ WARNING

Make sure there are no personnel or obstructions in the path of travel. Acquaint yourself with the blind spots of the MEWP. If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

Do not drive the MEWP elevated in areas where electrical cables or debris are in the path of travel. If you do not obey, there is a risk of death or serious injury.

1. Energize the platform control console (refer to *Section 5.3*).
2. Move the **lift**/**off**/**drive** switch to the drive position.
3. The indicator light turns green to indicate drive function in enabled.
4. Squeeze and hold the **function-enable** switch.

NOTE

The drive or lift function is enabled for 10 seconds. The power to both drive and lift circuits disconnects if the function-enable switch is not used within 10 seconds.

5. Move the **controller handle** to drive at the necessary speed and in the necessary direction.
6. Move the **controller handle** to the neutral central position to stop. Release the **function-enable** switch.

⚠ CAUTION

The pothole protection relies on stable ground clearance. If the total MEWP weight is ever on the pothole protection, immediately lower the platform, and lock and tag the MEWP. A qualified service technician must do a complete inspection. If you do not obey, there is a risk of MEWP damage.

5.7 Steer

1. Energize the platform control console (refer to *Section 5.3*).
2. Move the **lift**/**off**/**drive** switch to the drive position.
3. Squeeze and hold the **function-enable** switch.

NOTE

The drive or lift function is enabled for 10 seconds. The power to both drive and lift circuits disconnects if the function-enable switch is not used within 10 seconds.

4. Push the **steering rocker** switch on top of the **controller handle** in one of the two directions to steer.

5.8 Select the low-speed or high-speed mode

- Select the high speed drive mode when you drive on a level surface.
  1. To use the high speed drive mode, move the **high-speed**/**low-speed** switch to the high-speed position.

⚠ WARNING

Do not drive the MEWP in the elevated position on a slope. Fully retract the MEWP before you operate it on a slope. If you do not obey, there is a risk of death or serious injury.

- Select the low speed-drive mode in these situations:
  - When you drive up or down slopes
  - When you drive on rough ground
  - When you drive the MEWP onto or remove it from a transport vehicle.
  2. To use the low-speed, move the **high-speed**/**low-speed** switch to the low-speed position.

5.9 Extend/retract the extension platform

⚠ WARNING

Crush hazard. Do not retract the extension platform from the ground. If you do not obey, there is a risk of death or serious injury.

5.9-1 Extend/retract the extension platform manually

1. Remove the **lock pins** for the extension platform. Refer to *Figure 03.*
2. Push or pull the extension handrails to extend or retract the extension platform.

⚠ CAUTION

Install each lock pin correctly with the detent ball of each lock pin fully through the extension handrails. If you do not obey, there is a risk of machine damage.

3. Install the **lock pins** to lock the extension platform at the necessary position. Refer to *Figure 03.*

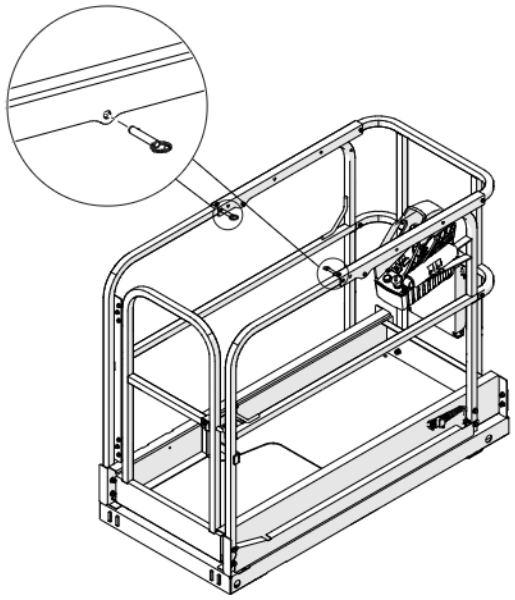


Figure 03 *Lock pin location*

5.10 MEWP shutdown

⚠ WARNING

Look for overhead obstructions or other possible hazards around the MEWP when you raise the platform. Do not lower the platform unless the area below is clear of personnel and obstructions. If you do not obey, there is a risk of death or serious injury.

1. Select a reasonably well-protected location to park the MEWP. This location must have a firm, level surface, clear of obstructions and traffic.
2. Fully lower the platform.

⚠ WARNING

Fall hazard. Use the three points of contact principle when you use the MEWP ladder to enter or exit the platform. If you do not obey, there is a risk of death or serious injury.

3. Use the MEWP ladder to exit the platform.
4. Turn the **off**/**platform**/**base key** switch to the off position on the base control console and remove the key.
5. Turn the **main power disconnect** switch to the off position.

Notes

Section 6 – Procedures

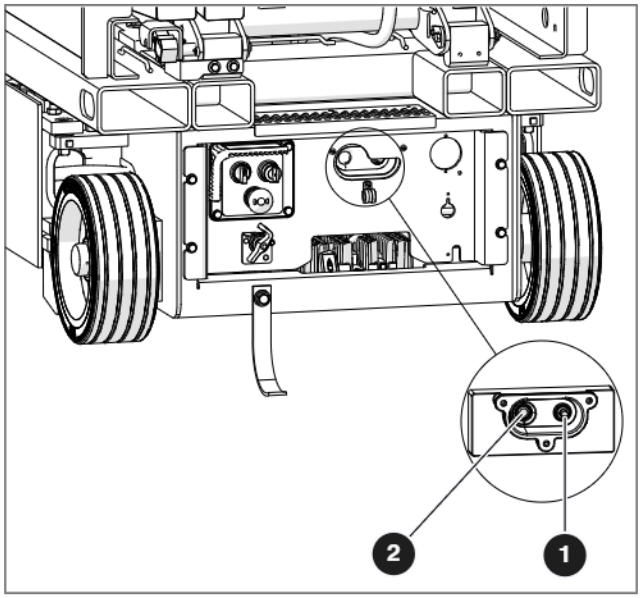
6.1 Use the emergency-lowering function

If there is a primary power failure, you can use the emergency-lowering function to lower the platform.

⚠ WARNING

Crush hazard. Keep clear of the lift mechanism when you use the emergency-lowering function. If you do not obey, there is a risk of death or serious injury.

Hold the **emergency-lowering** switch ❶ to the left or right to fully lower the platform.



⚠ WARNING

Look for overhead obstructions or other possible hazards around the MEWP when you raise the platform. Do not lower the platform unless the area below is clear of personnel and obstructions. If you do not obey, there is a risk of death or serious injury.

6.2 Release the brakes manually

⚠ WARNING

Runaway hazard. After you release the brakes, the MEWP rolls freely on slopes. Do not manually disengage the brakes unless the MEWP is on a level surface or the MEWP is fully restrained.

Keep the travel path clear at all times.

If you do not obey, there is a risk of death, serious injury, and/or MEWP damage.

1. Make sure that the MEWP is on firm, level ground.
2. Turn the **main power disconnect** switch to the on position.
3. Pull the **emergency-stop** button on the platform control console.
4. Pull the **emergency-stop** button on the base control console.
5. Turn and hold the **off/platform/base key** switch to the base position
6. Hold the brake release button ❷ for 3 seconds. The beeper makes a sound to indicate the brake is released.
7. Push the **emergency-stop** button to engage the brakes.

6.3 Winch and tow the MEWP

⚠ WARNING

Tip-over hazard. Make sure that platform is fully lowered before you push, winch or tow unless the movement is necessary to clear an obstacle. Sudden movement can cause the MEWP to become unstable.

In emergency situations where the MEWP functions are unavailable and an obstruction prevents the platform lower function, carefully move the MEWP. Move the MEWP sufficiently far away to clear the obstruction. Do not move at a speed faster than 50 mm/sec (2 in/sec). If you do not obey, there is a risk of death, serious injury, and/or MEWP damage.

⚠ WARNING

When you push, winch or tow, do not move the MEWP at a speed faster than 3.2 km/h (2.0 mph). If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

Runaway hazard. After you release the brakes the MEWP rolls freely on slopes. Disengage the brakes manually only if the MEWP is fully restrained or the MEWP is on a level surface.

Keep the travel path clear at all times.

If you do not obey, thetre is a risk of death, serious inury, and/or MEWP damage.

⚠ WARNING

Tip-over hazard. Disengage the brakes manually before you push, winch, or tow the MEWP. If you do not obey, there is a risk of death or serious injury.

1. Release the brakes manually. Refer to *Section 6.2*.
2. Push, winch, or tow the MEWP to the necessary location.
3. Put the MEWP on a firm, level surface.
4. Push the **emergency-stop** button to reset the brakes.

⚠ WARNING

Engage the brakes immediately after the MEWP is at the necessary location. If you do not obey, there is a risk of death or serious injury.

6.4 Use the platform control console from the ground

⚠ WARNING

The correct operator location is with the platform control console attached to the right-front side of the platform. Only operate the MEWP from the ground in these conditions:

- **To do maintenance**
- **When you cannot do work safely from the position of the operator on the platform because of an obstruction**

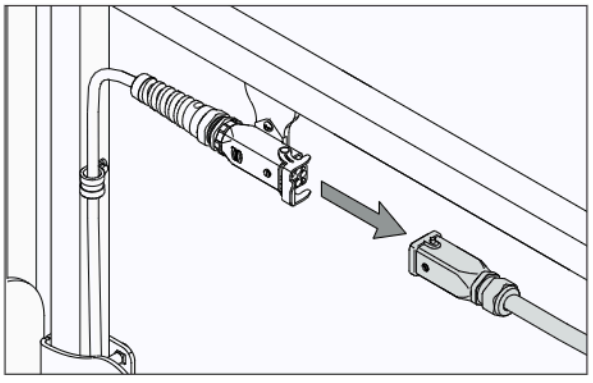
If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

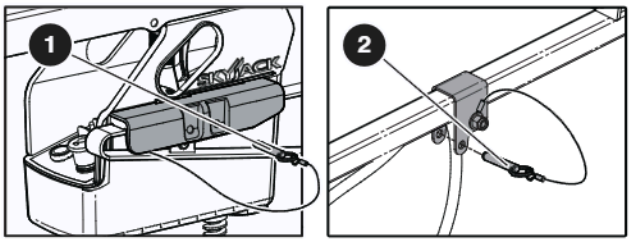
Fall hazard. Use the three points of contact principle when you use the MEWP ladder to enter or exit the platform. If you do not obey, there is a risk of death or serious injury.

6.4-1 Disconnect and remove the platform control console

1. Use the MEWP ladder to enter the platform.
2. Disconnect the **platform control console cable** from the **electrical connector** on the platform.



3. Remove the **lock pin** ❶ from the control consle mounting bracket. Remove the **platform control console** from the mounting bracket.
4. Remove the **control cable lock pin** from the **railing clamp** ❷ . Remove the **control cable** from the clamp on the horizontal midrail.



5. Put the **platform control console** down on the platform floor.
6. Use the MEWP ladder to exit the platform.

6.4-2 Operate the MEWP from the ground

⚠ WARNING

Make sure the operator and the platform control console point in the same direction as the front of the MEWP.

Do not drive the MEWP toward yourself.

Keep away from crush hazards. Stay clear of the MEWP and out of the direction of travel.

When you use a ramp to drive the MEWP onto or remove it from a transport vehicle, make sure all personnel, which includes the operator:

- **Stay away from the direction of a possible tip-over of the MEWP.**
- **Stay out of the path of movement of the MEWP down the ramp.**

If you do not obey these instructions, there is a risk of death or serious injury.

⚠ CAUTION

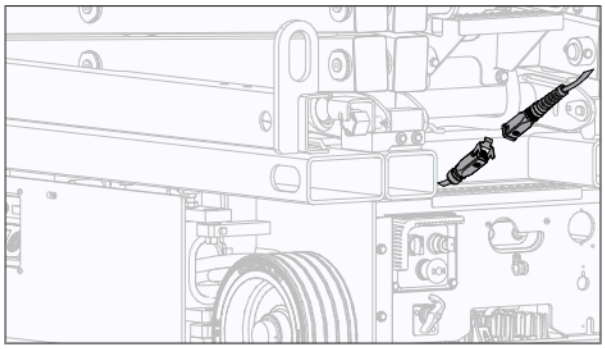
Make sure the platform control console cable does not become entangled with the MEWP or objects that surround the MEWP. If you do not obey, there is a risk of MEWP damage.

1. Before you operate the MEWP, do a full worksite inspection to identify possible hazards in your work area. Refer to *Section 2.4*.
2. Cordon off the pathway you plan to travel.

⚠ WARNING

Crush hazard. Make sure that there are no personnel in the path you will travel. Tell personnel around the path before you move the MEWP. Use a second person to monitor the movement of the MEWP. Make sure that person stays at a safe distance. If you do not obey, there is a risk of death or serious injury.

3. Connect the **cable** of the platform control console to the **electrical connector** at the rear of the MEWP.
4. Stay behind or to the side of the MEWP.



5. Move the **low speed**/**high speed** switch to the low speed position.
6. Use as low a speed as practical to drive the MEWP forward to the necessary location.
7. Turn the **main power disconnect** switch to the off position.
8. Disconnect the cable from the base before you go up onto the platform.

⚠ WARNING

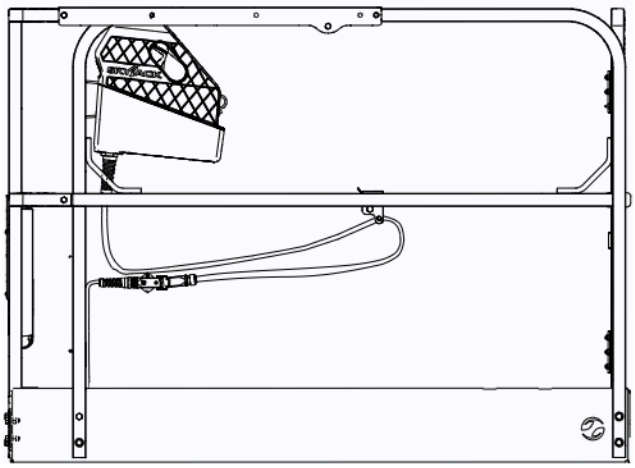
Fall hazard. Use the three points of contact principle when you use the MEWP ladder to enter or exit the platform. If you do not obey, there is a risk of death or serious injury.

9. Use the MEWP ladder to enter the platform.

⚠ CAUTION

Make sure each lock pin is correctly installed with the detent ball of each lock pin fully through the hole.

10. Install the **platform control console** onto the mounting bracket. Install the **lock pin** in the mounting bracket.
11. Put the **control cable** into the railing clamp and install the **lock pin**.
12. Connect the **cable** of the platform control console to the **electrical connector** on the platform.



6.5 Move the MEWP for transport

When you drive a MEWP onto or remove it from a transport vehicle, on a public road, give protection to the person(s) involved. Protection can include:

- Warning cones
- Road signs and signaling devices
- Applicable personal protective equipment, such as reflective clothing
- Flag personnel to warn other vehicles of the MEWP and other related vehicles
- Other applicable control measures.

Obey all the national, state/provincial/territorial, and local safety rules when you move the MEWP for transport. Only qualified personnel with authorization must drive the MEWP onto or remove it from a transport vehicle.

Be sure the vehicle capacity and load equipment, hoists, chains, straps, and other related items are sufficient to withstand the maximum MEWP weight.

Park the transport vehicle on a level surface. Use wheel chocks or blocks to prevent unintended vehicle movement during this operation.

6.5-1 Hoist or Lift the MEWP

⚠ WARNING

Only qualified riggers must operate the machinery during a lift.

When you hoist or lift the MEWP, you must:

- Turn the off/platform/base switch to the off position and remove the key.
- Close and tightly latch the hydraulic, electric and battery trays.
- Retract the extension platform. Correctly insert the lock pins.
- Attach the **platform control console** to the mounting bracket, or remove the platform control console.
- Remove all personnel, tools, and materials from the platform.
- Attach the rigging to all **four lift points** ❶ to hoist.
- Lift with the forks in the designated **forklift pockets** ❷. Refer to *Figure 04* and *Figure 05*.

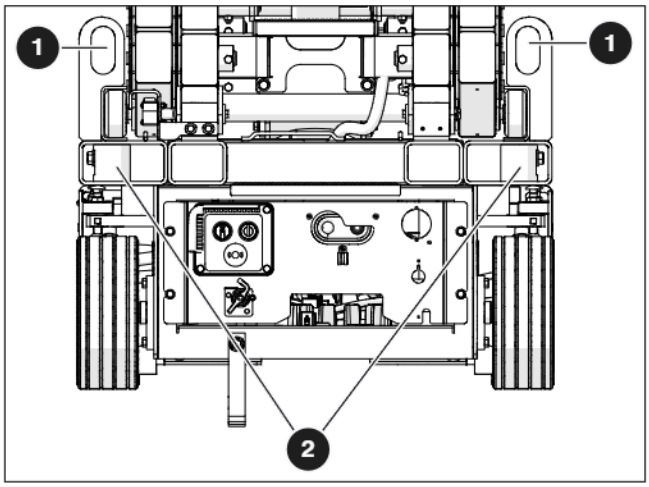


Figure 04 *Lift points and forklift pockets*

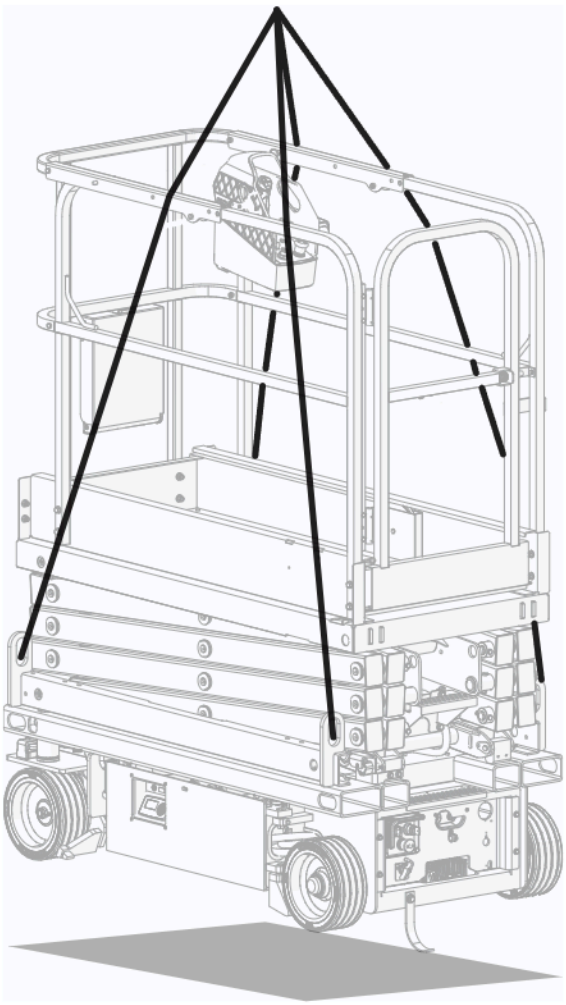


Figure 05 *Appropriate method to hoist*

NOTE

For the weight of the MEWP, refer to Section 7.3. Horizontally, the ***center of gravity*** ❸ *is approximately in the middle of the MEWP, front to back and side to side. Refer to Figure 06. Vertically, the center of gravity is approximately a small distance above the chassis.*

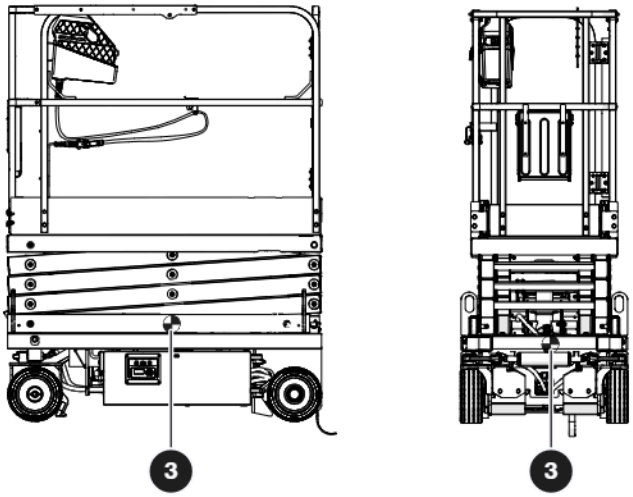


Figure 06 *Center of gravity*

6.5-2 Drive and tie-down the MEWP

Before you drive the MEWP:

- The ramp or dock capacity must be able to hold the maximum MEWP weight.
- Use side guards (if available) to prevent a fall from the ramp.
- The incline of the ramp must not exceed the MEWP gradeability. Refer to *Section 7.3*.
- Do a test of the MEWP brakes to make sure they operate correctly.
- Move the high-speed/low-speed switch to select low speed position.

⚠ WARNING

When you transport the MEWP, it must be attached to a truck or trailer deck. Use the available tie-down points ❼ to attach the MEWP. Refer to *Figure 07*. If you do not obey, there is a risk of death or serious injury.

- Tie-down the MEWP to the transport vehicle using the four **tie-down points** ❼. Refer to *Figure 07.*

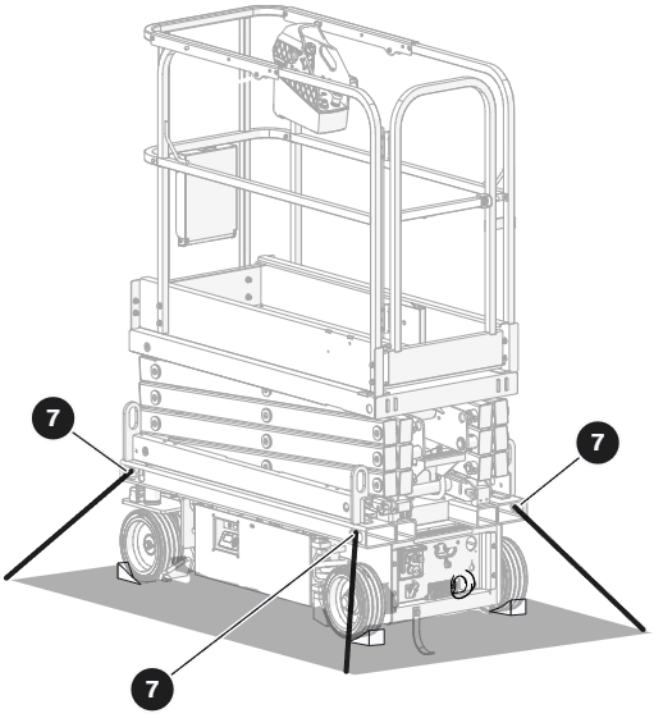
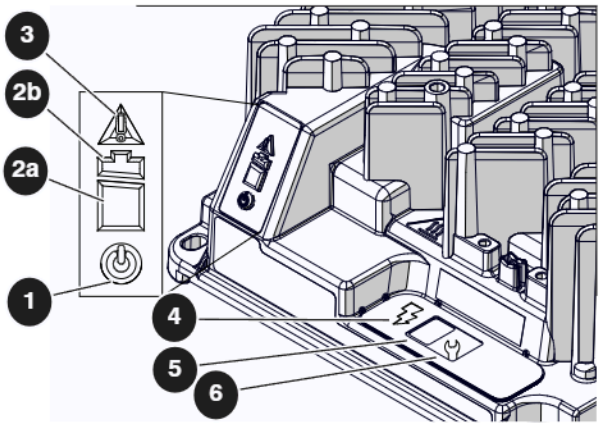


***Figure 07** MEWP Tie-down*

6.6 Charge the Battery



No.	Indicator type	Condition	Description
1	AC power	Blue	Battery charger is connected to the AC power.
2a	*Battery charge* <80%	Flashing Amber	Low charge— continue to charge.
		Solid green	High charge— continue to charge.
2b	*Battery charge* >80%	Green flash	High charge— continue to charge or stop the charge.
		Solid green	Charge complete— stop the charge.
3	*Fault/ error*	Solid red	*Charger fault*—refer to the service manual.
		Amber flash	*Error found*—refer to the service manual.
4	*Charge output*	Solid yellow	Charger output is on.
5	*Charge profile/ error display*	Algorithm or fault/ error code	N/A.
6	*Select charge profile*	Charge algorithm	N/A.

⚠ WARNING

Electrocution hazard. Do not touch parts of the charger output wires that are not insulated, the battery connector, or the battery terminals. Do not use AC cords that are not correctly grounded. If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

Electrocution hazard. Do not put the charger in water. If you do not obey, there is a risk of death or serious injury.

⚠ CAUTION

Burn hazard. Do not touch the surface of the charger when it is in operation, especially in higher temperature environments. Let the charger cool before you touch it. If you do not obey, there is a risk of death or serious injury.

1. Supply sufficient airflow for the batteries and the charger.

IMPORTANT

Do not let materials or fabric be in contact with the charger. It is necessary for the charger to have access to cool air for it to operate correctly. Clean the charger cooling fins if they are clogged with debris to make sure the charger functions at its best.

2. Make sure there are no damaged, altered, loose, or missing parts on the charger AC plug and cord. Make sure the charger plug is grounded correctly.
3. Do a visual and manual inspection of the DC output wires and terminals. Make sure they are in good condition before each use.

⚠ WARNING

Explosion hazard. Be careful when you use fuels, solvents, or other flammable materials near the charger or batteries. A spark from the charger or batteries can cause a fire or explosion. If you do not obey, there is a risk of death or serious injury.

4. Connect the power supply cable to a correctly grounded outlet between 100 to 240 VAC, 50/60 Hz. The charger automatically senses and adjusts to the voltage range of the AC input.

NOTE

The charger starts automatically in 4-6 seconds, regardless of the remaining battery charge (down to 1 VDC terminal voltage). The LEDs show that the charge continues.

NOTE

Many conditions have an effect on the battery charge time. These include: the battery amp-hour capacity, the remaining charge, the temperature, and the condition (new, used, and defective). More time is necessary to charge batteries that are larger than 240 AH.

⚠ WARNING

Explosion hazard. Do not disconnect the DC output wires near the batteries when the charger is ON. This can cause an arc, which can then cause the batteries to explode. You must disconnect the AC power supply cable from its outlet, and then the charger DC connections. If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

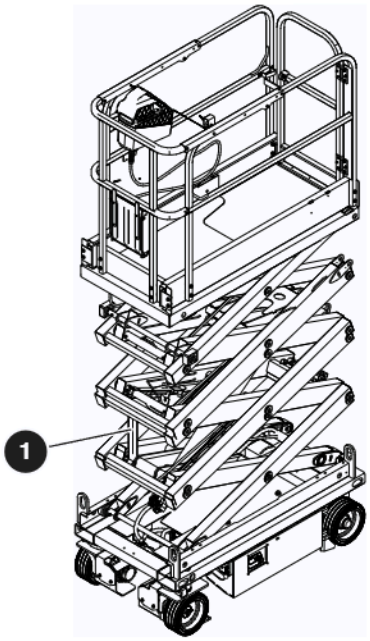
Electrocution hazard. Do not touch parts of the charger output wires that are not insulated, the battery connector, or the battery terminals. If you do not obey, there is a risk of death or serious injury.

⚠ WARNING

Do not charge the batteries in hazardous areas.

6.7 Use the maintenance support

The **maintenance support** ❶ is a mechanism on the scissor assembly. When it is in the correct position, it can hold the scissor assembly and an empty platform.



⚠ WARNING

Use the maintenance support when you do an inspection and/or maintenance or repairs in the confines of the lift mechanism. If you do not use the support, there is a risk of death or serious injury.

⚠ WARNING

Crush hazard. Do not put parts of your body through the scissor assembly unless the maintenance support is correctly deployed. If you do not obey, there is a risk of death or serious injury.

6.7-1 Deploy the maintenance support

1. Remove all personnel and material from the platform.

⚠ WARNING

Look for overhead obstructions or other possible hazards around the MEWP when you raise the platform. Do not lower the platform unless the area below is clear of personnel and obstructions. If you do not obey, there is a risk of death or serious injury.

2. Raise the platform until there is adequate clearance to deploy the **maintenance support** ❶.
3. Deploy the **maintenance support**.
4. Lower the platform until the **maintenance support** touches the cross members with labels, and the platform stops.
5. Turn the **main power disconnect** switch to the off position.

6.7-2 Store the maintenance support

1. Turn the **main power disconnect** switch to the on position.

⚠ WARNING

Look for overhead obstructions or other possible hazards around the MEWP when you raise the platform. Do not lower the platform unless the area below is clear of personnel and obstructions. If you do not obey, there is a risk of death or serious injury.

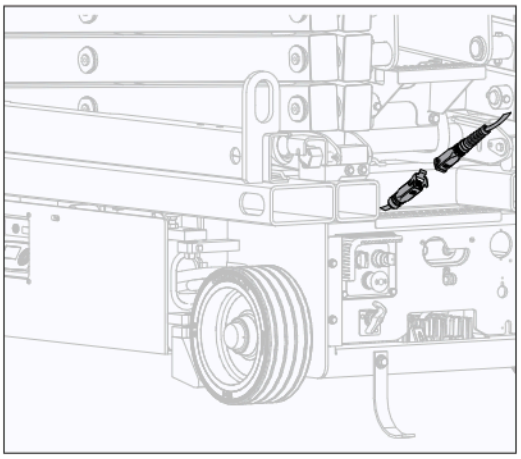
2. Raise the platform until there is adequate clearance to retract the **maintenance support** ❶.
3. Retract the **maintenance support** into the storage bracket.
4. Fully lower the platform.

6.8 Move the MEWP through a doorway

⚠ WARNING

Make sure the MEWP is on firm, level surface. If you do not obey, there is a risk of death or serious injury.

1. Make sure the height/width of the doorway is sufficient to let the MEWP drive through.
2. Before you operate the MEWP, do a full inspection of the site (refer to Section 2.4). Identify hazards in your work area.
3. Make sure the platform is fully lowered.
4. Follow *Section 6.4* to move the platform control console to the base.



⚠ WARNING

Crush hazard. Make sure that there are no personnel in the path you will travel. Tell personnel around the path before you move the MEWP. Use a second person to monitor the movement of the MEWP. Make sure that person stays at a safe distance. If you do not obey, there is a risk of death or serious injury.

5. Stay behind the MEWP.
6. Make sure the **platform control console** points in the same direction as the front of the MEWP.
7. Turn the **main power disconnect** switch to the on position.
8. Pull the **emergency-stop** button on the base control console.
9. Turn the **off/platform/base key** switch to the platform position.
10. Pull the **emergency-stop** button on the platform control console.
11. Move the **high speed/low speed** switch to the low speed position for reduced speed.
12. Move the **lift/off/drive** switch to the drive position.
13. Use as low a speed as practical to drive the MEWP forward through the doorway.
14. Turn the **main power disconnect** switch to the off position.
15. Disconnect the **platform control console** from the base and put it on the platform.

⚠ WARNING

Fall hazard. Make sure each lock pin is correctly installed with the detent ball of each lock pin fully through the hole. Failure to avoid this hazard could result in death or serious injury.

16. Put the **platform control console** back onto the mounting bracket. Install the **lock pin** in the mounting bracket.
17. Put the **control cable** into the railing clamp and install the **lock pin**.

⚠ WARNING

Fall hazard. Use the three points of contact principle when you use the MEWP ladder to enter or exit the platform. If you do not obey, there is a risk of death or serious injury.

18. Connect the **platform control console cable** to the **electrical connector** on the platform right front railing.
19. Use the MEWP ladder to exit the platform.

Section 7 – Specifications

7.1 Standard and optional equipment

Models	SJ3213 micro	SJ3219 micro
Standard Equipment		
24V DC power source (deep cycle batteries)	*	*
Base controls	*	*
Battery charger indicator	*	*
Battery level indicator	*	*
Dual holding brakes	*	*
Fall protection anchorages	*	*
All motion audible alarm	*	*
Forklift pockets/tie downs/lifting lugs	*	*
Solid rail system	*	*
Hydraulic oil level indicator	*	*
Low voltage battery protection	*	*
Manual extension platform	*	*
Operator horn	*	*
Overload sensing system	*	*
Platform controls	*	*
Pothole protection	*	*
Spring-loaded full gate entry	*	*
Swing out trays for easy access	*	*
Tilt alarm with drive/lift cut out	*	*
Variable front wheel electric drive	*	*
AC power socket on base	*	*
AC power outlet on platform	*	*
Optional Equipment		
AGM batteries	*	*
Flashing light	*	*
Dual flashing lights	*	*
Battery tray lock	*	*
Telematics harness	*	*
Eco tray	*	*
Dual height control console	*	*
White noise alarm	*	*
Perimeter lights	*	*
X-Step	*	*
SGLE switch on platform control console	*	*

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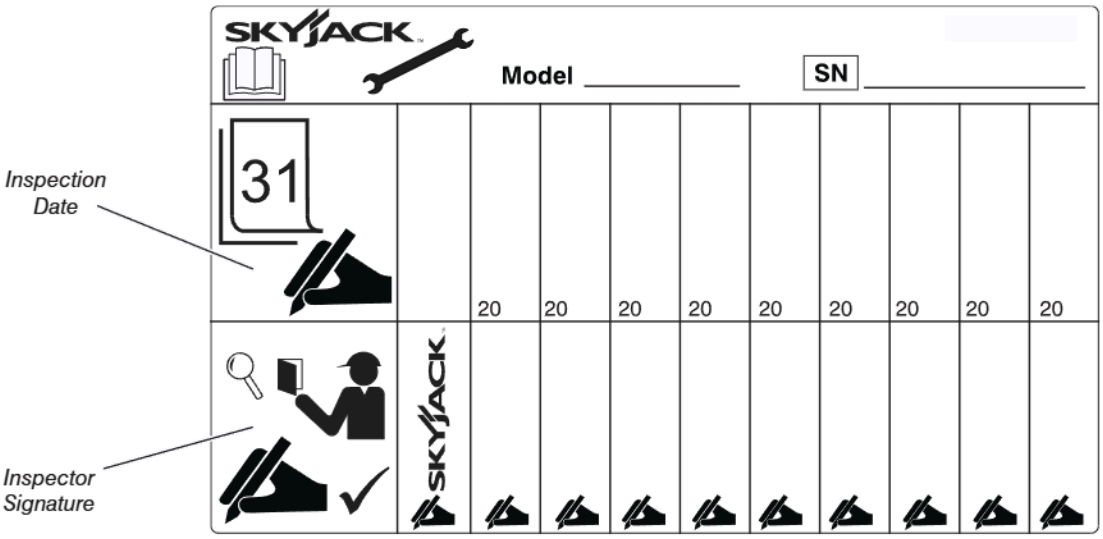
7.2 Owner's Annual Inspection Record



⚠ WARNING

Do not use the MEWP if there is no inspection recorded in the last 13 months. If you do not obey, there is a risk of death or serious injury.

IMPORTANT

The Owner's Annual Inspection Record on the scissor assembly must be filled out after an annual inspection is completed.

7.3 Specifications

Models	SJ3213 micro	SJ3219 micro
Weight *	860 kg (1897 lb)	1212 kg (2673 lb)
Overall Width	0.82 m (32.25 in)	
Overall Length (Platform Retracted)	1.53 m (60.25 in)	
Overall Length (Platform Extended)	2.03 m (80.25 in)	
Platform Size, Inside (Platform Retracted)	1.43 m (56.65 in)	
Platform Size Inside (Platform Extended)	1.95 m (76.65 in)	
Height		
Working Height	5.79 m (19 ft)	7.34 m (24 ft 1 in)
Platform Elevated Height	3.96 m (13 ft)	5.51 m (18 ft 1 in)
Stowed Platform Height	0.80m (31.81 in)	0.90 m (35.57 in)
Stowed Height	1.92 m (75.73 in)	2.01 m (79.49 in)
Elevated Drive Speed Trip Height	1.82 m (6 ft)	1.82 m (6 ft)
Drive Height (Maximum)	FULL	
Standard operating times		
Lift Time (No Load)	20 s	22 s
Lower Time (No Load)	38 s	35 s
Lift Time (Rated Load)	25 s	25 s
Lower Time (Rated Load)	28 s	26 s
Chassis		
Normal Drive Speed (Stowed)	3.38 km/h (2.1 mph)	
Elevated Drive Speed	0.64 km/h (0.4 mph)	
Gradeability (Ramp Angle)	25%	
Tires (Solid Rubber)	10 x 4	
Hydraulic oil		
Type	ATF Dexron III	
Tank capacity	4 L (1.05 gal)	
Sound pressure level at platform level		
Does not exceed:	70 db(A)	
Whole Body Vibration		
Whole body vibration on the platform does not exceed 0.5 m/sec^2.		

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* *Weight with standard 0.9 m extension platform. Refer to serial nameplate for specific applications.*

7.4 Environment

Model	SJ3213 & SJ3219 micro
Electromagnetic Compatibility (EMC)	Meets requirements of ISO 13766-1:2018
Hazardous Location Rating	The MEWP is not rated for hazardous locations with potentially flammable gases, explosive gases or particles.
Operating Temperatures	
-20°C (-4°F) – +40°C (+104°F)	

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7.5 Maximum platform capacities (evenly distributed)

Model	Wind rating	Total platform capacity		Extension platform capacity		Manual side force		Tilt cutout setting (side-to-side x front-to-back)
SJ3213 micro	0 m/s [0 mph]	227 kg [500 lb]	2 persons	100 kg [220 lb]	1 person	400 N [90 lbf]	2 persons	1.5° × 3°
	12.5 m/s [28 mph]		1 person			200 N [45 lbf]	1 person	
SJ3219 micro	0 m/s [0 mph]		2 persons			400 N [90 lbf]	2 persons	
	12.5 m/s [28 mph]		1 person			200 N [45 lbf]	1 person	

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NOTE

Occupants and materials are not to exceed the rated load. Refer to the capacity label at the entrance of the platform and the front kick plate for more information and models equipped with options.

7.6 Floor loading pressure

Model		Weights				Pressures					
		MEWP weight		Max weight per wheel		LCP**		GBP**		OFL**	
		kg	lb	kg	lb	kPa	psi	kPa	psi	kPa	psi
SJ3213 micro	Min*	860	1897	216	475	700	101	NA	NA	6.7	0.98
	Max*	1087	2397	442	975	1047	152	710	103	8.5	1.23
SJ3219 micro	Min*	1212	2673	303	668	832	121	NA	NA	9.5	1.38
	Max*	1440	3173	530	1170	1207	175	807	117	11.3	1.63

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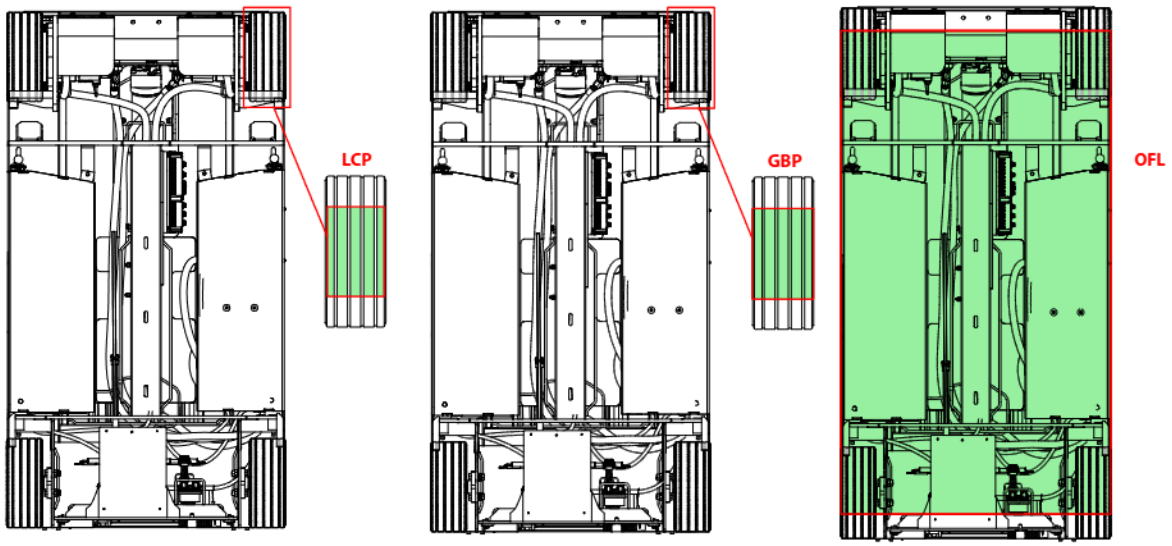
* **Min:** Minimum MEWP weight (Unloaded platform, no options/attachments)
Max: Maximum MEWP weight (Platform loaded to capacity with options/attachments)

Wheel is the weight that can be experienced on one wheel.
Note: *This is more than 25% of the machine weight due to possible weight distribution over the machine and platform.*

** **LCP:** Local Concentrated Pressure is a measure of how hard the MEWP presses on the area in direct contact with the floor/tire.
GBP: Ground Bearing Pressue is a measure of how hard the MEWP presses on the area under the tire and assumes some compressibility of the surface to allow the load to be distributed across the tire.
OFL: Overall Floor Load (Pressure) is a measure of the average load the MEWP imparts on the whole surface directly underneath the chassis. This has been calculated by dividing the MEWP weight by the overall floor area occupied by the MEWP (on wheels).

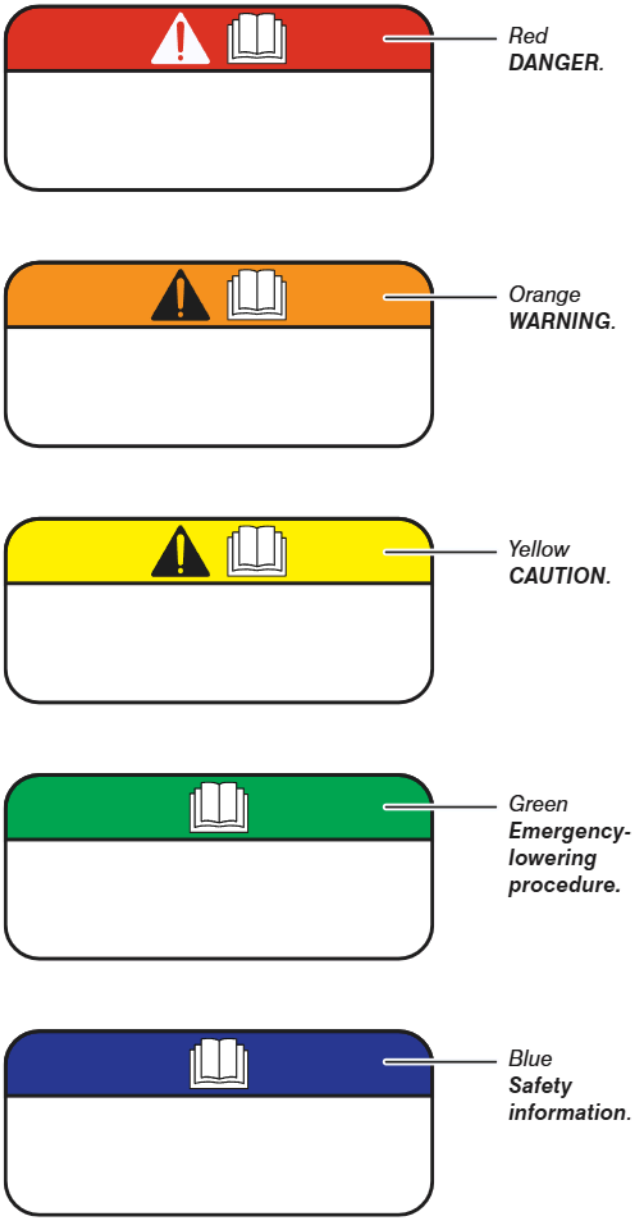
Note: *The floor covering (e.g., tile, carpet, etc.) or the structure (e.g., beams) of the operating surface must be able to withstand more than the values indicated above.*

Note: *The LCP or OFL that an individual surface can withstand varies from structure to structure and is generally determined by the engineer or architect for that particular structure.*



Notes

Section 8 – Labels



Red
DANGER.

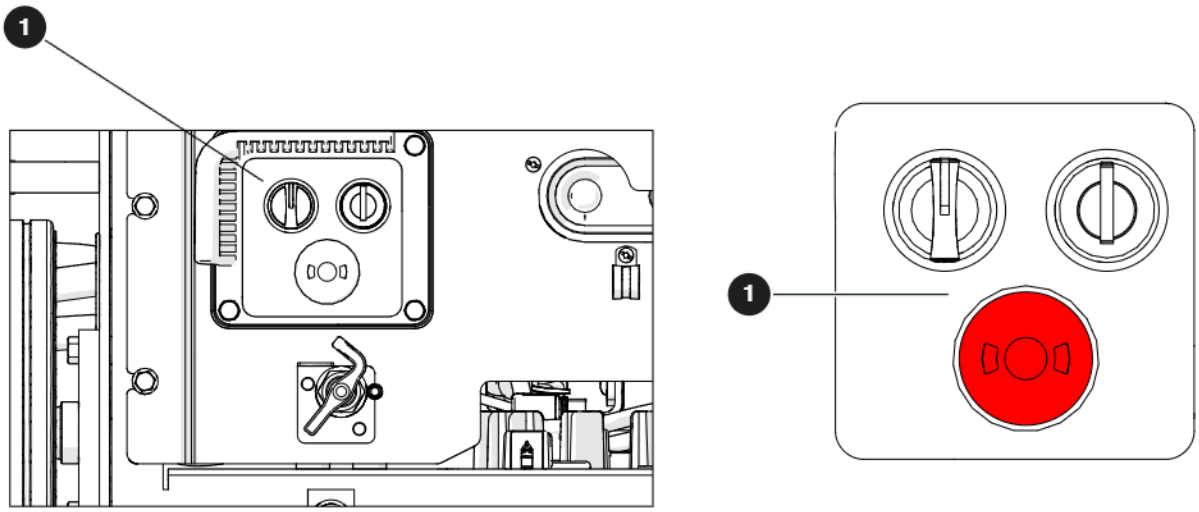
Orange
WARNING.

Yellow
CAUTION.

Green
Emergency-lowering procedure.

Blue
Safety information.

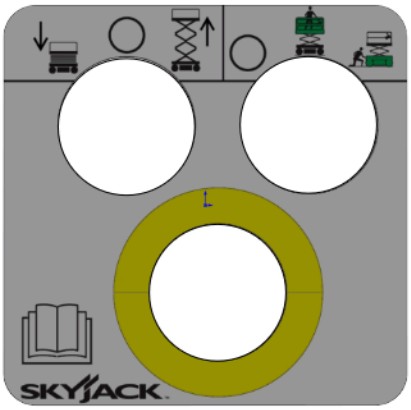
8.1 Base control console



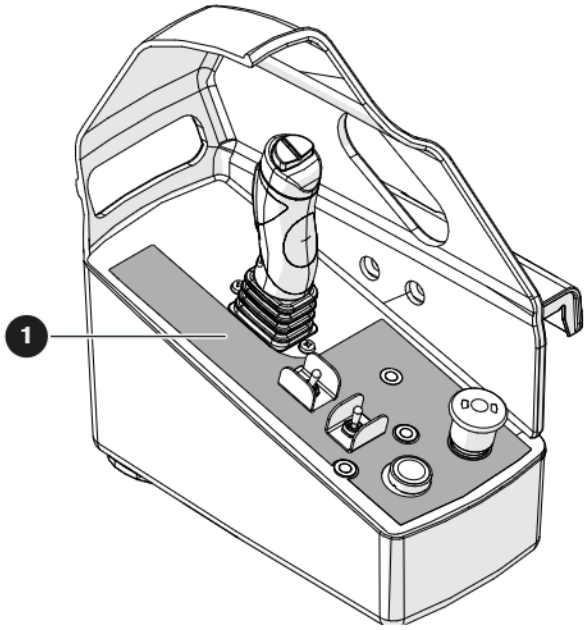
Description	Label Pictorial

1 Base controls

- Select the **off position** to turn off power to the MEWP, the **platform position** to energize the platform controls, or the **base position** to energize the base controls.
- Turn and hold the **lower**/**neutral**/**raise** switch to lower or raise the platform.
- Push the **emergency-stop** button to disconnect power to the control circuit. Pull the **emergency-stop** button to connect the power again.



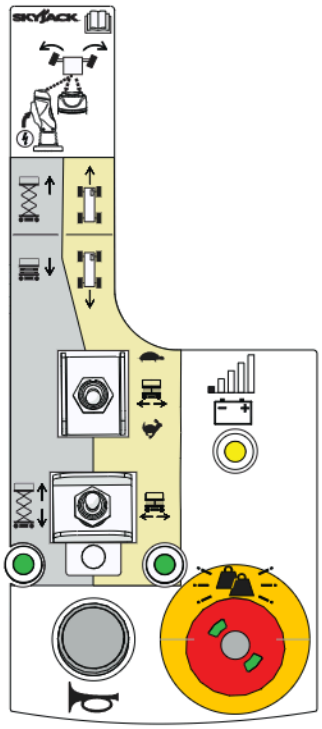
8.2 Platform control console



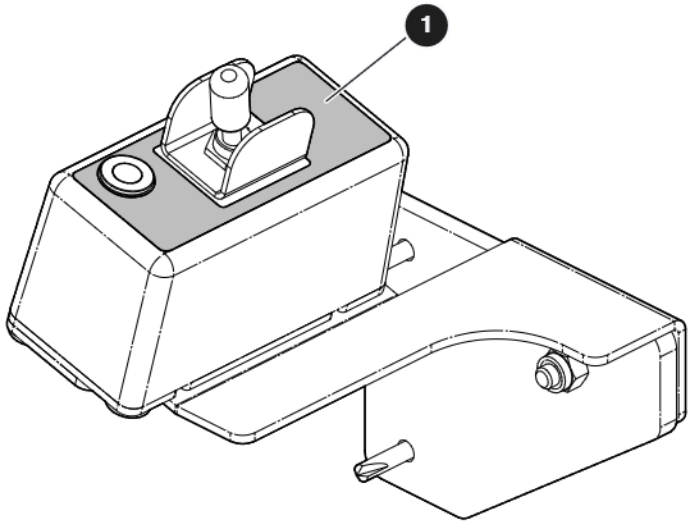
Description	Label Pictorial

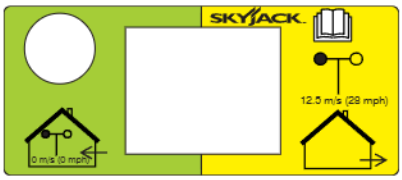
1 Platform controls

- Squeeze and hold the **function-enable** switch to energize the lift, drive, and steer functions.
- Select the **lift**, **off,** or **drive** mode.
- Operate the **steering rocker** switch to steer.
- Move the **controller handle** to control the lift and drive movements.
- Select the **low speed** or high speed mode.
- Push the **horn** button to make a sound like a car horn.
- Push the **emergency-stop** button to disconnect power to the control circuit. Pull the **emergency-stop** button to connect the power again.

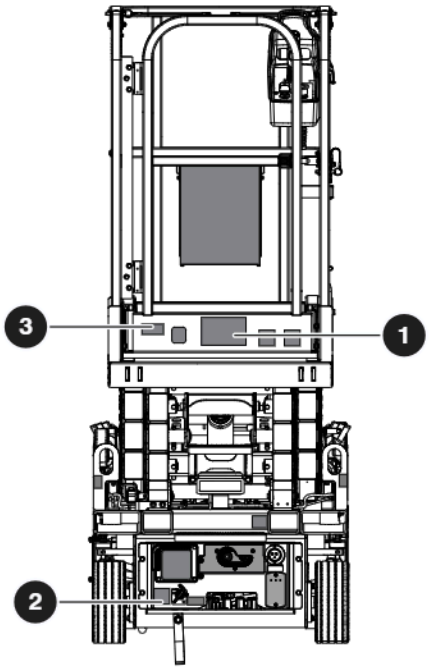


8.3 Dual height control console label (If Equipped)



Description	Label Pictorial
1 Dual height controls Lift the **dual height** switch to select the indoor (no wind) or outdoor (wind) mode.	

8.4 Rear



Description	Label Pictorial

1 Platform capacity*

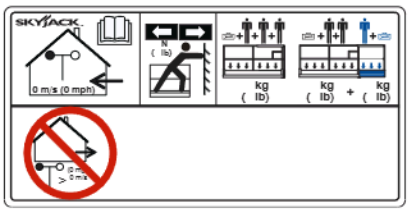
Shows the rated work load in each configuration.

**Each model has different platform capacities.*

Horizontal load rating**

Do not apply more than the specified side load. Operate the MEWP when the wind speed, which includes wind gusts, is less than the specified speed for this model.

***The rating changes between different units.*



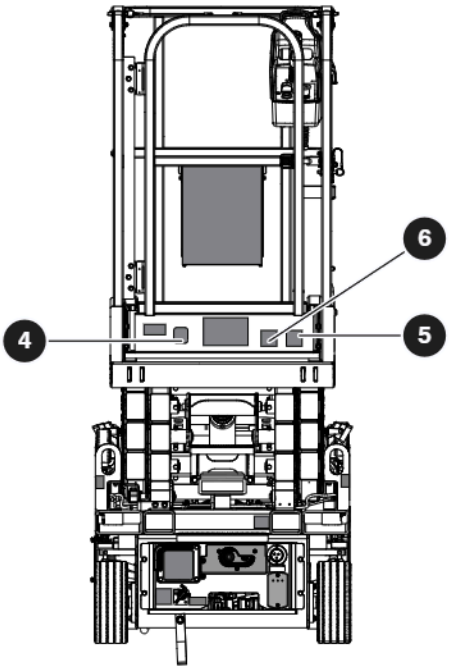
2 Main power disconnect switch

Turn the switch clockwise to turn the power on. Turn the switch counterclockwise to turn the power off. Use a padlock to lock the switch in place.

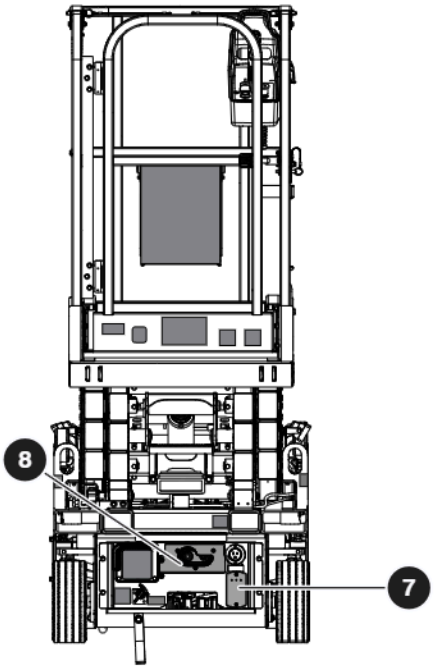
3 Warning - California proposition 65

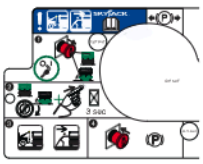
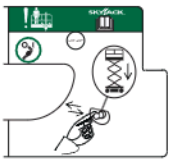
Cancer and reproductive harm -

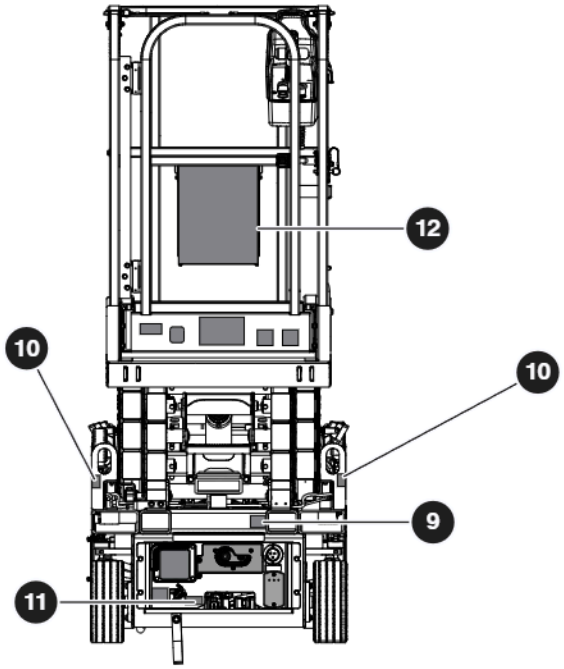
https://www.p65warnings.ca.gov/

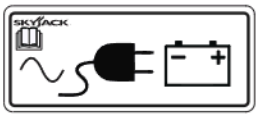


Description	Label Pictorial
4 Operator daily inspection Refer to the operation manual. Do the visual inspections and function tests when you start each work shift. Refer to *Section 4.2-10*.	
5 No jewelry Caution. Do not wear jewelry or loose clothing that could become caught or entangled.	
6 No insulation This MEWP is not electrically insulated and does not provide protection from contact with, or proximity to, energized electrical conductors. Follow *Section 2.1-1* for the minimum distance to keep between all parts of the MEWP, occupants, or tools, and the electrical conductors.	

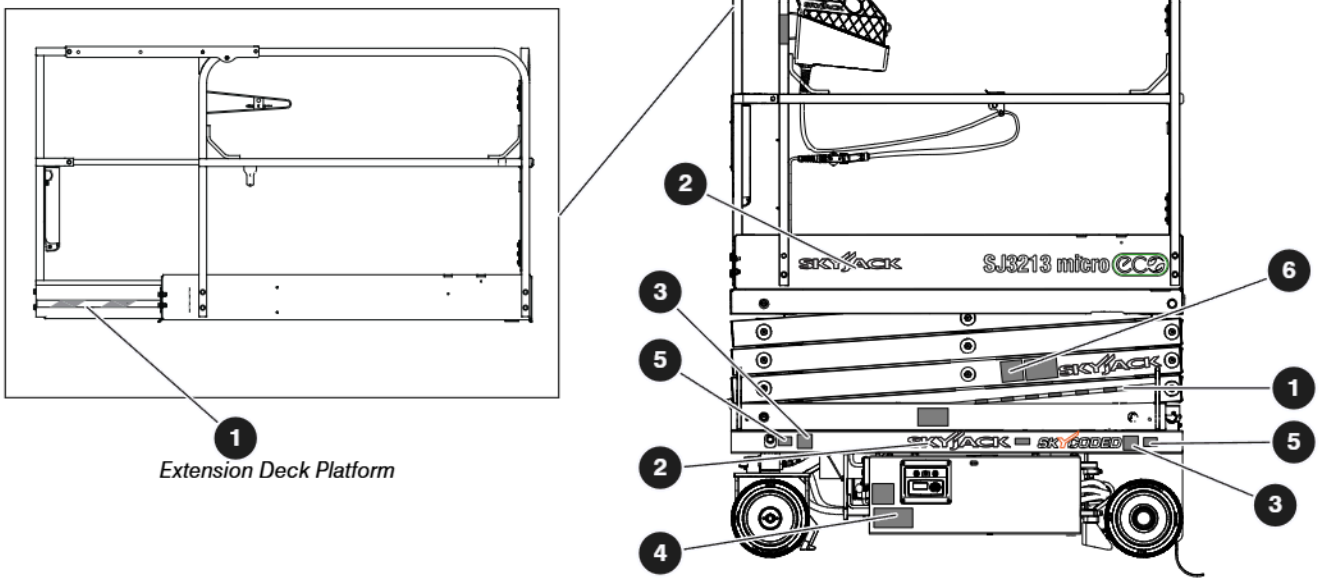


Description	Label Pictorial
7 Elevate™ Trackunit (optional equipment) This MEWP has added functionality.	
8 Winch/tow/push procedure 1. Release the brakes manually. Refer to *Section 6.2*. 2. Push, winch, or tow the MEWP to the necessary location. 3. Put the MEWP on a firm, level surface. 4. Push the **emergency-stop** button to reset the brakes.	
8 Emergency lowering procedure Hold the **emergency-lowering** switch to the left or right to fully lower the platform.	



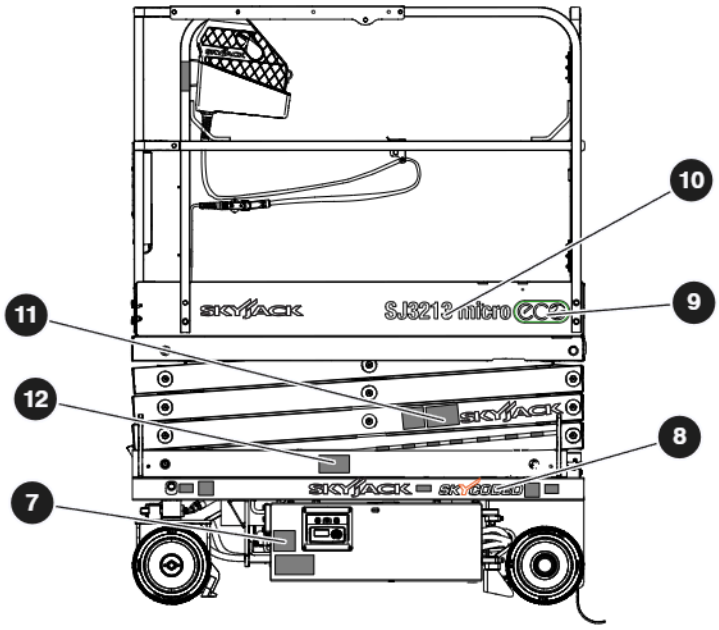
Description	Label Pictorial
9 Emergency-lowering identification	
10 Lift point pictorial	
11 Battery charge connection	
12 Hazard identification Read and understand the specific hazards with this MEWP before operation. Refer to *Section 2*. **Manual storage box** Shows the location of the operation manual. *Note: This label is inside the platform.*	

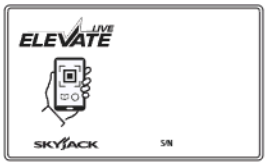
8.5 Left side

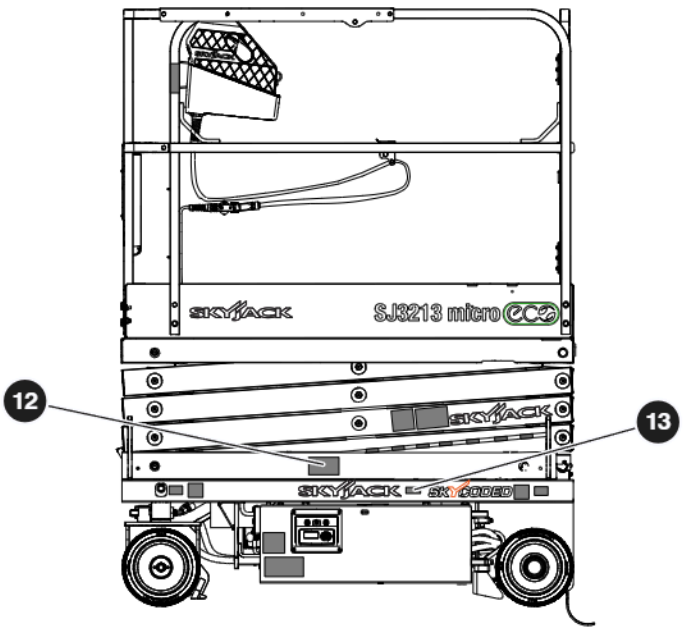


Extension Deck Platform

Description	Label Pictorial
1 Caution tape stripe	
2 Skyjack logo	
3 Wheel load* Shows the maximum load applied to the ground by the specified wheel. **Each model has different wheel loads.*	
4 Annual inspection Make sure the MEWP receives an annual inspection before operation.	
5 Lift and tie-down points Only use these points to lift or tie down the MEWP.	
6 Stay away Stay away from the MEWP when it is in operation.	



Description	Label Pictorial
7 Warning - annual inspection Refer to the operation manual. Make sure the annual and daily inspections are done.	
8 Skycoded™ logo	SKYCODED
9 ECO logo	
10 Model number* Product identifier. **The model number can be different from the one you see.*	SJ3213 micro
11 QR code This code gives you fast access to the MEWP documentation and the live MEWP data supplied by ELEVATE telematics (optional equipment).	

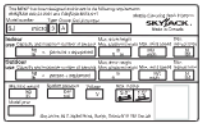


Description	Label Pictorial

12 Serial plate*

MEWP identification and specifications.

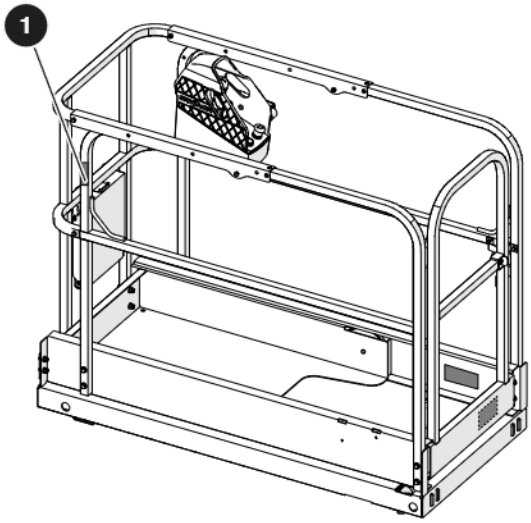
**The serial plate information changes with different MEWPs.*

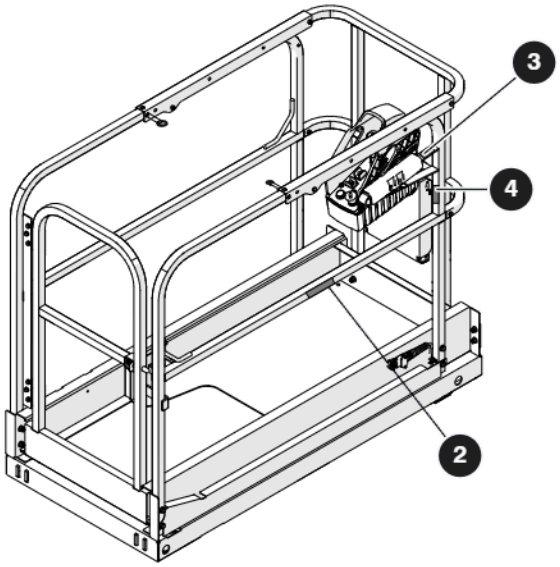


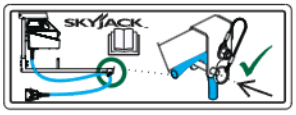
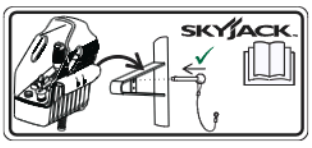
13 Skyjack manufactured date

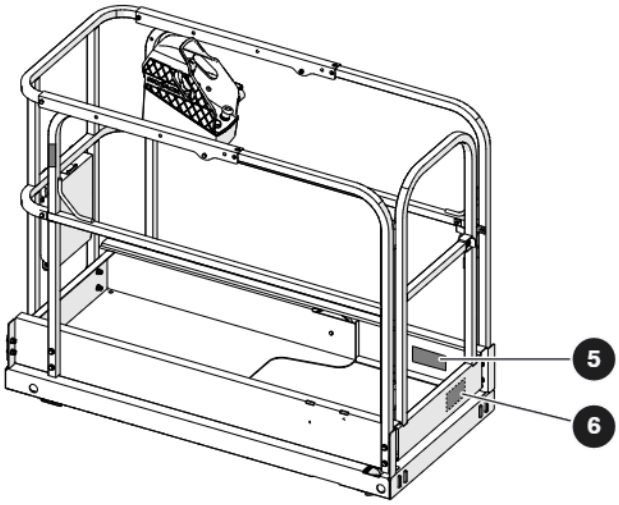
Shows the month and year of manufacture for this MEWP.

8.6 Platform





Description	Label Pictorial
1 Fall-protection anchorages When required, attach the body-harness lanyards of each occupant to the fall-protection anchorage points. Rated for one (1) person for each anchorage point.	
2 Platform control cable Insert the platform control console cable in the bracket and lock it with the lock pin.	
3 Location of the platform control console Shows the location of the platform control console.	
4 Platform extension lock pin Shows the location of the platform extension pin, which is on the inner face at the front of the left and right guardrails.	



Description	Label Pictorial

5 Platform capacity*

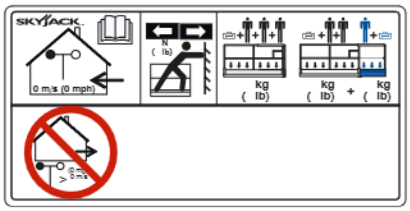
Shows the rated work load in each configuration.

**Each model has different platform capacities.*

Horizontal load rating**

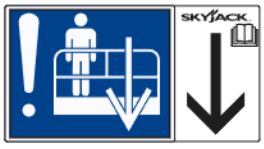
Do not apply more than the specified side load. Operate the MEWP when the wind speed, which includes wind gusts, is less than the specified speed for this model.

***The rating changes between different units.*

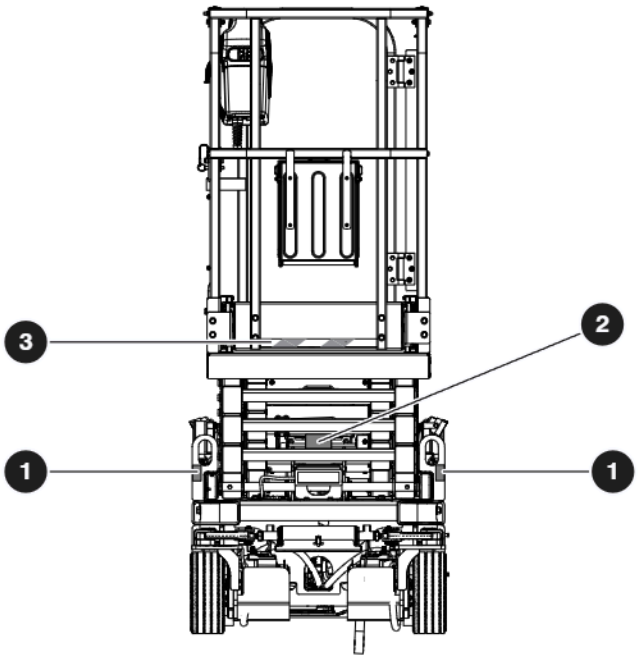


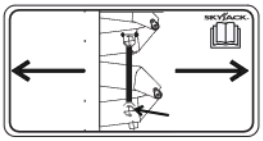
6 Emergency-lowering location identification

Indicates the location of the emergency-lowering controls on the base.

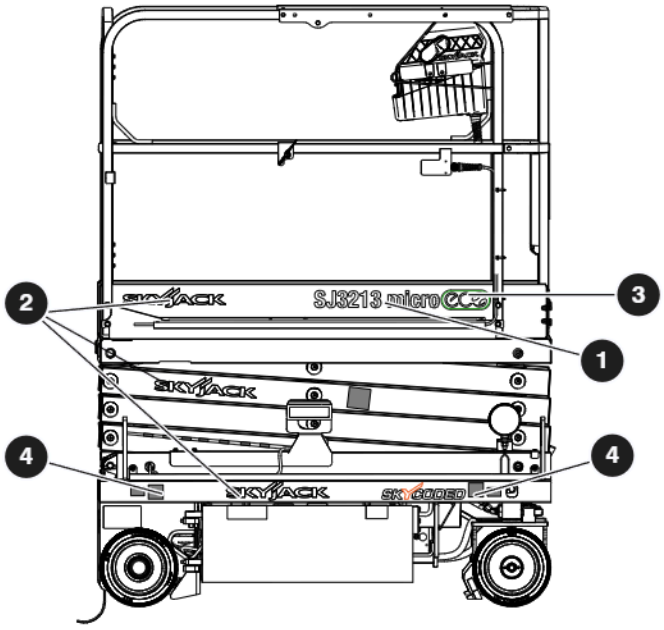


8.7 Front

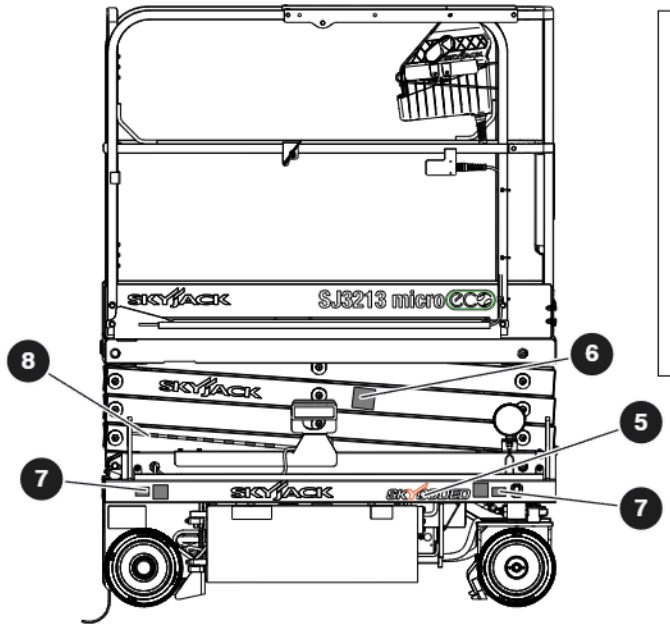


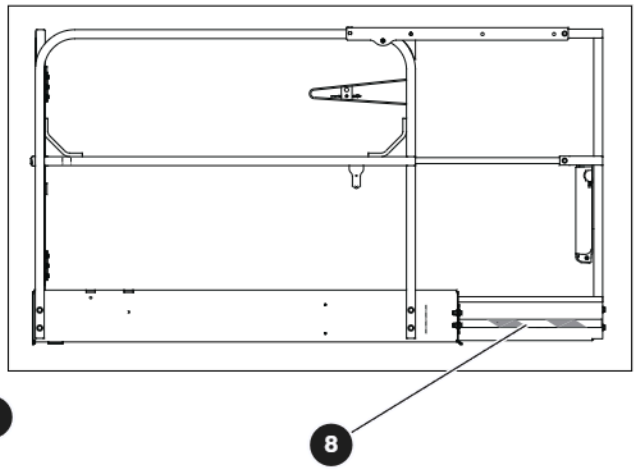
Description	Label Pictorial
1 Lift and tie-down points Only use these points to lift or tie-down the MEWP.	
2 Maintenance support Engage the maintenance support here.	
3 Caution tape stripe	

8.8 Right side



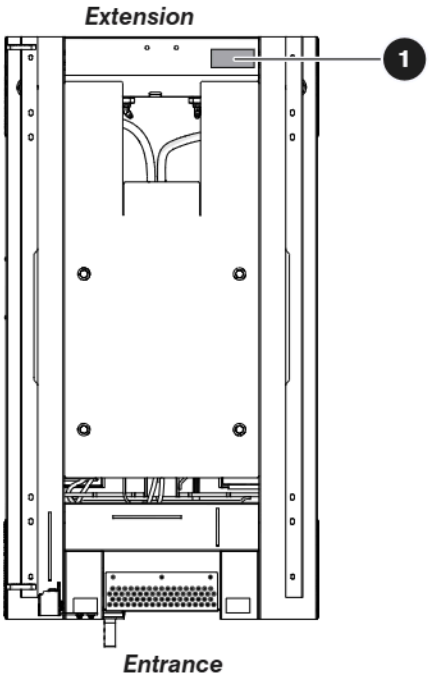
Description	Label Pictorial
1 Model number* Product identifier **The model number can be different from the one you see.*	SJ3213 micro
2 Skyjack logo	SKYJACK
3 ECO logo	ECO
4 Wheel load* Shows the maximum load applied to the ground by the specified wheel. **Each model has different wheel loads.*	SKYJACK kg (lb)





Description	Label Pictorial
5 Skycoded™ logo	
6 Stay away Stay away from the MEWP when it is in operation.	
7 Lift and tie-down points Only use these points to lift or tie down the MEWP.	
8 Caution tape stripe	

8.9 Top

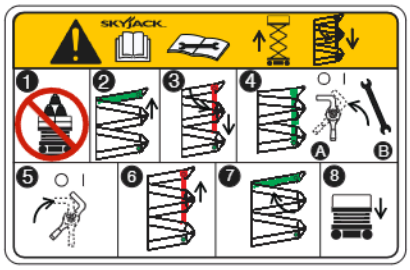


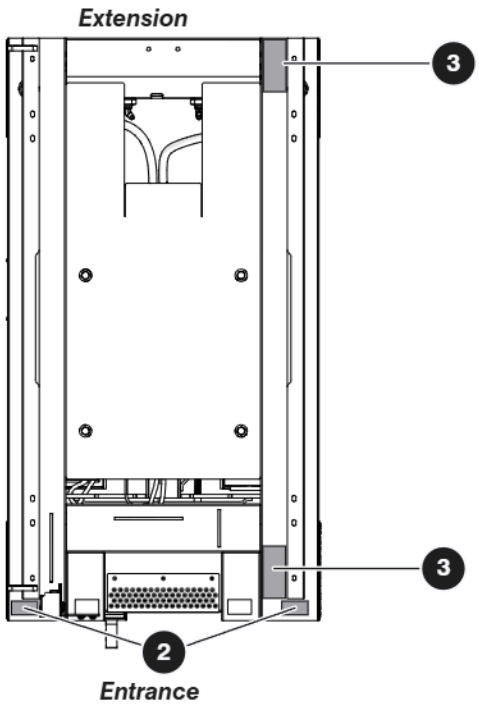
Description	Label Pictorial

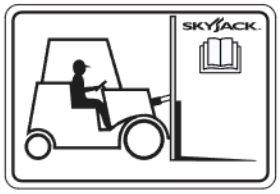
1 Maintenance support procedure

Refer to the operation manual.

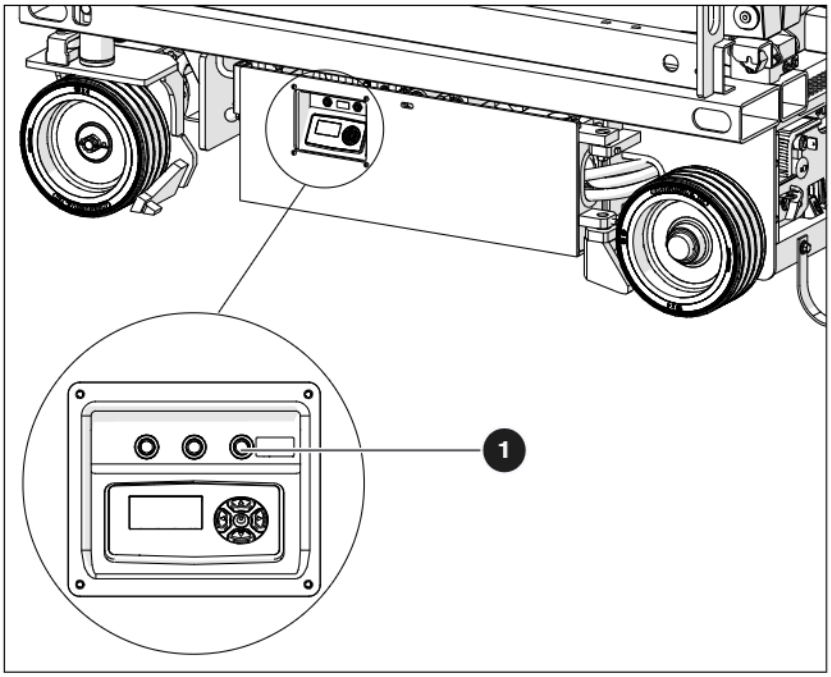
1. Remove all personnel and material from the platform.
2. Raise the platform until there is adequate clearance to deploy the **maintenance support**.
3. Deploy the **maintenance support**. Lower the platform until the bottom end of the **maintenance support** touches the cross bar with the label, and the maintenance support holds the scissors.
4. The maintenance support is now secured.
   a. Turn the **main power disconnect** switch to the off position.
   b. Do the necessary inspection or maintenance.
5. Turn the **main power disconnect** switch to the on position.
6. Raise the platform until there is adequate clearance to retract the **maintenance support**.
7. Store the **maintenance support** into the storage bracket.
8. Fully lower the platform.





Description	Label Pictorial
❷ Forklift pocket Put the fork fully into the pocket to lift the MEWP.	
❸ Warning - deploy maintenance support(s) Do not do maintenance or inspections in the scissor assembly unless the maintenance support(s) are deployed.	

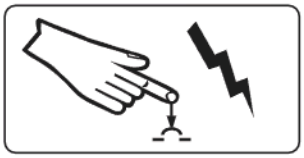
8.10 Display panel



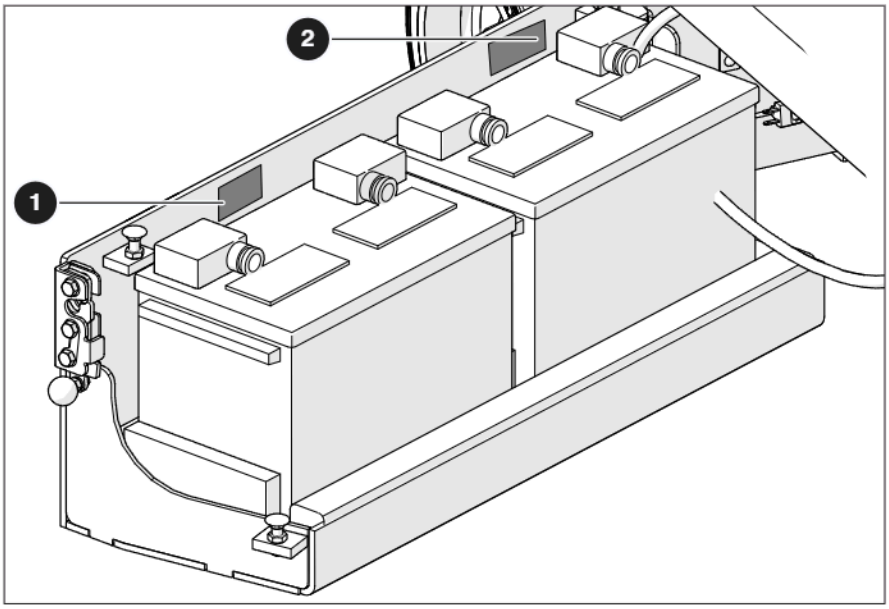
Description	Label Pictorial

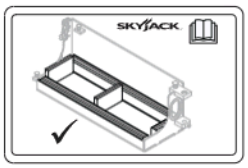
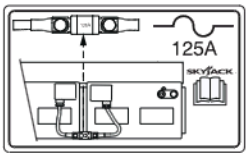
1 Circuit breaker reset

Push to reset the circuit breaker.

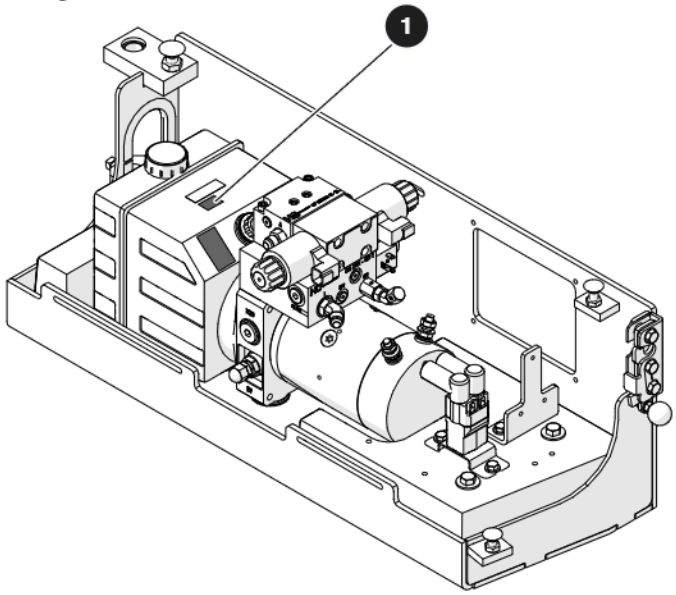


8.11 Battery tray



Description	Label Pictorial
❶ Battery spacers Put the spacers only as shown in the diagram.	
❷ Fuse location	

8.12 Hydraulic tray



Description	Label Pictorial

1 Hydraulic oil

Replace the hydraulic oil with the same type of oil shown on the label.

Notes

Section 9 – Unique Skyjack Features

Your Skyjack MEWP may be equipped with the following unique features:

ACCESSORYZERS™

Having equipment with features and functionality that allow you and your customers to do more is a vital part of the utilization equation. Skyjack offers a range of accessory products to further expand a given product's adaptability and your power to offer a truly flexible rental choice.

SKYCODED™

A proven and reliable, Skyjack's color coded and numbered wiring system, make our machines the easiest to trouble shoot and repair which means easier maintenance and lowered costs.


WARNING
Cancer and Reproductive Harm-
https://www.p65warnings.ca.gov/

SKYJACK™

www.skyjack.com